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<110> Reynisdottir, Inga
 Gulcher, Jeffrey R.
 Grant, Struan F.
 Thorleifsson, Gudmar

<120> Human Type II Diabetes Gene - Slit-3
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<140> 10/533,365

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<150> PCT/US03/34801

<151> 2003-10-31

<150> 60/423,541

<151> 2002-11-01

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213/289

```

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```

```

<210> 2
<211> 173
<212> DNA
<213> homo sapiens

```

```

<400> 2
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tgacgggggt gcaggagtc tggggagaaa cacaaggaag tgtgtgtgtg tgtgtgtgtg 120
tgtgtgtgtg aatgtgtgtg tgtgtgagag agagagctgg tgtttgtgtt cca 173

```

```

<210> 3
<211> 333
<212> DNA
<213> homo sapiens

```

```

<220>
<221> misc_feature
<222> 88, 164
<223> n = A,T,C or G

```

```

<400> 3
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ctaagaaatc acttttctga ctgaaggnc atttgactta cttcttttaa attcagggga 120
atgggtgggc atctccatga ttcaggtaag gaaaaatcca aggnaaataa acacacacac 180
acacacacac acacacacac acacacggag tagaaatatt tagtgcaatt ttttgtctca 240
cagcattaat taattgcagg gatataacta ccttggcaga attttttctc cccaaccac 300
caccctcgg aataagtttg gctcttttca gct 333

```

```

<210> 4
<211> 166
<212> DNA
<213> homo sapiens

```

214/289

<400> 4

```

tgccactca taagatgctg aggttacaac tgttaataag atattaagat actgtctttt 60
tcttctctt tctctcttac acacacacac acacacacac acacacactt tttgggcca 120
ctggaaattc atacattctc cccagcactg gagctcaaag cgtctg 166

```

<210> 5

<211> 360

<212> DNA

<213> homo sapiens

<400> 5

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ttcgagacag actctcactc tgtcacccag gctggagtgc agtggcacga tctgggttca 120
ctgcaacctc tacttctctc gctccaagga tctctctcacc tccacctccc aagtagctgg 180
gactacaggt acgcgccacc atgtctggtt aatttttttg tattggagag acaggggtcc 240
accatgttgc cggggttagt gttgcactcc tgagctcagg tgatccaccc acctcaacgt 300
ccccaagtgc tgggattaga ggcgtgagcc accacgtctg gcctatacac tatagagttt 360

```

<210> 6

<211> 212

<212> DNA

<213> homo sapiens

<400> 6

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tctggacagg accaggagtt ggctgctgtc agcctttgcc ccacctctct gtggctactg 60
ggatatgtgaa tctctcaagg cctgaagaga ggacagctga ggaatttgga aatcctaaaa 120
cacatgcata cacacacaca cacacacaca cacacacaca cacacacact tttctttccc 180
ttaaaaaaaaa aaagattcat tcaccgtgtg ca 212

```

<210> 7

<211> 347

<212> DNA

<213> homo sapiens

<400> 7

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ctgtctacac taccaccca ttagtcactt attagccctc tgaattactg gattgaaaaa 60
acatagtata tatatagggc ttggtactat tcacggtttc aggcattccac tgaggggtgt 120
tgcaatgtat ctcccacgga taaggaagga ctggtatatt aacactttta tttgatttac 180
aaaataaagg atagtttata tagttctggg taaaattaat taattaattt aaaaggaaaa 240
aagataaagg caaactttta gcttggttaa aattaagtaa aataatttgg attatttaat 300
tggacaaaga ggactggctt tgccaatgaa acaatatggc cgacatg 347

```

<210> 8

<211> 195

<212> DNA

<213> homo sapiens

<400> 8

215/289

```

ggaccttctt tctgccctaa aaccgcaata tcattataat aacaaatata tatatatata 60
tatatatatt tttttttttt aaaacaatct tgctatgttg cctaggctgg tgtggaactc 120
ctggcctcaa gtgatcctcc cacctcggcc tcccagagtg ctgggattat agacatgaac 180
taccataccc agcca 195

```

```

<210> 9
<211> 308
<212> DNA
<213> homo sapiens

```

```

<400> 9
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ttaacaggcg atggatactc cattctccat gatgtgctta attcacatgc atgcttgat 120
caaaacatct cacatactcc ataaagcctg taatcccaac actttgggat gccaagggtg 180
gtggatcact tgagcccagg agtttgagaa cagcctggac aacatggcga aacccccattt 240
acacacacac acacacacac acacacacac accacacaaa caaatgaaa caaacaccta 300
accaacaa 308

```

```

<210> 10
<211> 305
<212> DNA
<213> homo sapiens

```

```

<400> 10
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tagaaaagccc atggtgatgg agaatggagg aagactgatt agggagctcc tcagcagtat 180
aaggaaggac taagagcaca taaggacagg atcatagaat tccgcatctc aggatttttg 240
aggctgccac tgccttagct gtgaggccag tgcataataag aatagtttgc acagttctgc 300
tgtgg 305

```

```

<210> 11
<211> 370
<212> DNA
<213> homo sapiens

```

```

<400> 11
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aatatttgaa gagatttatt ctgagccaaa taggagtgcc acagccccgg gagatcctaa 240
gaacatgtgc ccagagtagt caagctatag tttggtttta tacatttttag ggagacataa 300
gacatcagtc aatacatgta agatgcacat tgatacactg gtttagtagg gaaagggtggg 360
acaactcgaa 370

```

```

<210> 12
<211> 251
<212> DNA
<213> homo sapiens

```

216/289

<400> 12

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gtgattgcac cgctgcattc cagcctggga gacagagcaa gatcctgaca cacacacaca 180
cacacacaca cacacacaca cacacacaca cattccaaca aggtaatgtg taggaggaag 240
tacccgagct t 251

```

<210> 13

<211> 335

<212> DNA

<213> homo sapiens

<400> 13

```

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atcactattg ccaacgcctg gttaattage ctgattcaat tctcttcagc ctcatTTTTgc 180
tcaaactctac cagatttTgt gtgtctcttg gtcctccacc acactttcta cccctcatcc 240
cactttTgt gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt gtgtgtgttag 300
gacatggcca ggaatcctga ctggcttct ttaaa 335

```

<210> 14

<211> 167

<212> DNA

<213> homo sapiens

<400> 14

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aagaccaccc tctgtttgtg ctctcctgaa atgtattcat atccacccat acacacacac 60
acacacacac acacacacac acacacacac acacacacac acattctctc tctctctctc 120
tttctctctc tctcttaaT gtcagtttct tcttctctgct ttccaga 167

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<210> 15

<211> 255

<212> DNA

<213> homo sapiens

<400> 15

```

cttgacattc agggccttct gagtacatca tcttgtcaag aaacactgaa ctattcagta 60
cacaacaggT cagaggTgcc catttgatag cctgaggatg gaatccttat tgcagcattt 120
tgcgtcatgc cacatatatg tgTTTTTtca atcctcctct gTTTTaaaaa ttggaaaatt 180
tcatacaaca cacacacaca cacacacaca cacacacaca cacacacacc ccccatacca 240
caccacacca catca 255

```

<210> 16

<211> 152

<212> DNA

<213> homo sapiens

<400> 16

```

agcctctgac tctcctctgt ggggctaTc cagaaaatct tacttttagaa ataacaataa 60
taataataat aataataata atacctcatt catctttact tatcatgtgc tagtatgttt 120

```

217/289

ctaagccttt tggcatagcc ttcaatgtcc ct 152

<210> 17

<211> 230

<212> DNA

<213> homo sapiens

<400> 17

ctcttcccat gtcctgcttc tctccttctt gggggttggg acccagtacc ctccatctct 60
ctcactcttc ccctctcaaa cccttctttt aggaaaggag tccaaatcga ccacttacac 120
ctcagttcaa tgcaagccag tataattaat aaggaacatt taagggtgtg taagggtgtg 180
tgtgtgtgta tgtgtgtgtg tgtgtgtgtg tagctcactc tgctctgcc 230

<210> 18

<211> 360

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> 33, 36, 72, 281, 311

<223> n = A,T,C or G

<400> 18

gatcaccagg gaatctagat ggaatccata gtnctnccct gcaagaatgc tgcaattctg 60
taccgtggag gngccaacag aatcaccagg ctctgtgact cagtcacaac accctgacct 120
gccctgtcc atttccata tcataccag agtgggtctt tcaaagcaca gctttgacca 180
atttctgtgc tttcacacat acacacacac acacacacac acacacatgc gtgcatgcat 240
gcctgaaata gtatagtatt gctcttaaga taaacattaa ngttcctacc atggtacaga 300
aaatatatgt ngttaggccc cgtgggtctt tcttttccag actcctctta cccttttgtg 360

<210> 19

<211> 133

<212> DNA

<213> homo sapiens

<400> 19

aaatcttcca ttgcagacca attaaaattt aaagattttt tctctctttt cccctcttct 60
ctctctctct ctctctctct ctctcacaca cacacacaca cacacacaca actctccaag 120
caciaagagc tga 133

<210> 20

<211> 245

<212> DNA

<213> homo sapiens

<400> 20

tgagtggatg agggagaagg ataaaagtca taaaatgcct cgcaaaaact ttgaggtctg 60
cctgcctggg attacagaga agcttgacac atacagaatg ttttgtggga aggaaggcag 120

218/289

```
gcaggcaggc aggcaggcag gcaggttggt tatgttttca ctcttgatat ctcaaagctt 180
tatgacacac tcatggagtg aacataatct ttgtggcatg atacaaaggg actgaatcac 240
tcaag 245
```

<210> 21

<211> 278

<212> DNA

<213> homo sapiens

<400> 21

```
agctatgac atgccactgc actccagcct ggctgataga atgagattct gactcagaaa 60
aatataaaca cacacacaca cacacacaca cacacacaca cacacacaca cacacaactt 120
tctgtctgcc cccttgctct tctgtgcccc tctctgcctt tcttctttcc tctctttgtc 180
aaatctcctt cgtctgcctc acaaaggcca gtgagcccca gccgcagacc aggggaagcca 240
gcaaattagg aattttcttc acaaagtttt gagtagct 278
```

<210> 22

<211> 184

<212> DNA

<213> homo sapiens

<400> 22

```
tctcccatct cctccctage tateccctgc ctggtaatca ctgttttggt ctctattttct 60
gtacagttgg gtttttggtt gtttggttgt ttttagattc cacatatact tgaaacaatg 120
caatcttttt ctttctttgt ctgggtttatt tcacttaaca cagtgcactc caggctcgtc 180
tatg 184
```

<210> 23

<211> 377

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> 124, 175, 320

<223> n = A,T,C or G

<400> 23

```
ccagaaagct tcaccaaggg gcgagcatga ttatgcatga gcttcttaaa tctggacttc 60
ccgacagctt ctcatgacag gtcttctgtg gaagactcct tagattcaga ccatcaggcc 120
tttnaaaagc acaggaacct actttacctc gcccaactct acggatggga taggnactta 180
caaggacatt tcttcattgg attccaatgt tcattctccc cttctctctc tcaattaatc 240
tccccctctt ctctttctat ctacacacac acacacacac acacacacag agagagagag 300
agagagagag agagagagan agaaacagct tcttcacagc gggaagcagg ggaaggggtat 360
ctatttccgg caagatc 377
```

<210> 24

<211> 379

<212> DNA

<213> homo sapiens

219/289

<400> 24

```

aaagtcagct agggcgactg agccagagag atgggggcaca cagcaagagg agacctgaca 60
aagtcaggt gtgtcctaga gaaggcaagc gagaccactg catgattgga ataccagcca 120
acccttgctt gttcttggtc cagcaaagtg ccctttttaa ataaatttat gtatatagtc 180
tctgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtataga catatagaaa tatatattcc 240
taattcagaa ctcattcgta agtgcacaca ctgacatgtg tttcatgttt cccaatttat 300
cccagagcct atatgcagtg tttggctgca caagtaggca ttaaattgcaa ccactgggaa 360
tgagaatggt ggccacaac                                     379

```

<210> 25

<211> 370

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> 24, 97, 104, 274

<223> n = A,T,C or G

<400> 25

```

agctttgaaa tcccatccaa actnattggc gtttcaaact gaatcccaga tgttcactta 60
ctgagaaata aatgaatggc ccaattcgtg gactgangca gggncctca caaatagatt 120
ccaggtgtgt tggcctctgg accactatct ttctctgttt tacatacaca tacatacaca 180
cacacacaca cacacacaca cacacacaca cacacacacg gcaccaagtc catcctgaaa 240
agaattcaac gtcattctcca agttagagcc agtntaggat gaacagagggt agttacctaa 300
cacaaataac atattttcaa ttgtggatga aggcaaagggt ctccacattc acactcttgt 360
gccttcaata                                     370

```

<210> 26

<211> 154

<212> DNA

<213> homo sapiens

<400> 26

```

ggcatgggat gtttgacctt agagatggac taaagccaat gagtaaaaat gtaaagcgta 60
cttagtcaaa taaattcttc tctctctctc tctctctctc tctctcctta ttcactcctc 120
ttgggccgtg atgatgatga gggagaggag cagt                                     154

```

<210> 27

<211> 390

<212> DNA

<213> homo sapiens

<400> 27

```

tatttgccctg cctgggttag atgattctcc aggcttctac acaattttat gtttatatga 60
aaatagccac aaagggaata gaggacaata aaacaagaga tatgaataat aatgtattgt 120
atacttgaaa ttgctaataa gagtagatct caagtgttct acatacacac acacacacac 180
acacacacac aaaggtaatg aatgagatga taggtgttaa ttaacttgat tgtggtaatc 240
acttcacaat gtatacatat aaaaacatca tgttttacia cctacattta tacaattcct 300

```

220/289

caattatata tcaataaacc tggaaaaata aagatgtata aaaaagattt acaaataaga 360
 tttttaaaaa aggattgtga ggaaacaaag 390

<210> 28
 <211> 192
 <212> DNA
 <213> homo sapiens

<400> 28
 accagctaac ctgccatgag actgtttgtgt agccatcttc acctcctcat cttcagggaa 60
 ggggatgaaa atatctgtgc actgcaaagt ttaactatat atacacacac acacacacac 120
 acacacacgt acagtaggcc ctccataacc tgaggttcca catctgcata ttttaccaac 180
 tctggtccct gc 192

<210> 29
 <211> 242
 <212> DNA
 <213> homo sapiens

<400> 29
 ttgttcctga atgggaggag gactggtgag tgagggggaa agaatggaga caggactgag 60
 aagaaccaga aattaaaata atagtagtaa tagcctaaca tgtacacgta tatgagatct 120
 atctatctat ctatctatct atctatctat ctatctatct atcatctata tatctatcat 180
 ccatcatgta tctatctatt tgcataatata agctataata tctggctctg ttctaattgt 240
 tt 242

<210> 30
 <211> 249
 <212> DNA
 <213> homo sapiens

<400> 30
 ccaggcttgg atgagagaat aatcttaagg aagtcagcat atgttctaga aacattcaga 60
 agacaaaaga gtctgttatg aaagaacaaa gtattttgtaa taataaattg aatgttacat 120
 ggacacaccc agacatacac acacagacac acacacacac agtttttctt ctctctctct 180
 ctctccccac tcccctctct catactttgc aaacaagctc ctcagcagct ggtaagctgt 240
 tccctgtcc 249

<210> 31
 <211> 305
 <212> DNA
 <213> homo sapiens

<400> 31
 tcctgactgc tcaaagctca aggtgttgcc tttttcaaata gggatgcaat agcctactca 60
 tttttccaaga ttaaagctag agagaagaat gaatgaatga ataaataaat aaataaataa 120
 ataaataaat aaataaatga gcaaagttaa tattagctgg aaaaaatagg gtacaggtgg 180
 aaggaatgaa cccatattga gagtccacta tgtgtcaaata tccttgcatg gaatctctaa 240
 ggtctgtcta gcttaaaaagc aatgccagcc ttgctatctg tacttgatga ggagatggat 300
 cggaa 305

221/289

<210> 32
 <211> 353
 <212> DNA
 <213> homo sapiens

<400> 32
 ccaaactgca aaccctaaact tctacaatga attcatgtgc aacttattct aaaagatcta 60
 tacacacaca cacacacaca cacacacaca cacacacaca cacttcctgt cctattgctc 120
 ttcactactt ccttcacatc tgtgctacaa tctgggttca tttttcttcc ccttgagtaa 180
 tttattatgt tttttacagt gagtctgttg ctcaaaaatt ctttttagtat ttatttgtat 240
 aaaaagtctt aattttgtct tcatataaaa ttttgtttga cactctatta taaattgact 300
 gttattctct ttccatgttt tccggacata gttccattgt cttctgactt cca 353

<210> 33
 <211> 267
 <212> DNA
 <213> homo sapiens

<220>
 <221> misc_feature
 <222> 4, 55, 133, 189, 227, 228, 252, 259, 263
 <223> n = A,T,C or G

<400> 33
 ttcnacctta tgggtatatc gaattgtaac cccgttgtag gtcaaggagc atctncatat 60
 atacatacat agatgataga tagatagata gatagataga tagatagata gatagataga 120
 tttaattcta aantttccaa atactctttc atttaaataa ttatagtttt acaacaattt 180
 catatatnt ataggtagga gaattagggt tttccagaga aatagannca ataggctgtg 240
 tgtgtatata angatttant ttnaaga 267

<210> 34
 <211> 299
 <212> DNA
 <213> homo sapiens

<400> 34
 gttgggcatg atgggtgtgta cctatagtc tagctacctg ggaggctgag gcaggaggat 60
 cccttgagcc caggagttaa agactaaca gactccatct ctgaaaaata aggcaaaaaa 120
 agtatgaaga ataaaataac aatcacttac attccaacca cctataatta atcattgcca 180
 acacctgagg atatttgctt ccaatctaca agactgcatt attattatta ttattattat 240
 tattattatt attattatta ttattattat tgagatgggg gtttctcttt gttgcccag 299

<210> 35
 <211> 393
 <212> DNA
 <213> homo sapiens

<400> 35
 gcagacaggg ttcaaattcc agcctcccct catattagct gtgtgatctt aggcaagttt 60

222/289

```

attcatgtgt aaaaagaaat aataacctct tctcgtgggg ttgcagggtta aacaaaagag 120
taggtattaa aacaactaaa agagtatgat tggattgttt ataacacaaa ggataaatgc 180
ttgaggacat ggatcccat cttccatgat gtgattttta tgcattgtat gcctctatca 240
aaacatctca tttactccat atatatgtgt gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt 300
gtgtgtgtgt gtatgtgtat gcacacacta tgtgccacaca aaaattaaaa attttaaaat 360
taaaaaattt taaaaataaa catgctgctg ggc 393

```

<210> 36

<211> 201

<212> DNA

<213> homo sapiens

<400> 36

```

agctgccagc acacaaggcc cagaggtact ttattggatg ccaaattctt ttaacacacc 60
atgagaaaag aagttgacaa ctttcccatg cattttggaa ggtgtgtag aacgattcaa 120
cacacacaca cacacacaca cacacacaca cacacacaca cacatttatt ggggtggggg 180
agccttaaaa cttacaaatc t 201

```

<210> 37

<211> 246

<212> DNA

<213> homo sapiens

<400> 37

```

aatttcttac cttttatccc cgtcttctac tcccattcca catgcccccc accccccatg 60
aatgatttgt ctaatgcgtt gaatatgcac gtgtgggtttt ggggtgcatgt atgtttacac 120
acacacacac agactctctc tctctctctc tcacacacac acacacacac acacacacac 180
acacactcat gcctctcctt tgaagaggat cagatatgga cagcaaaggg cattagcatc 240
ttagct 246

```

<210> 38

<211> 351

<212> DNA

<213> homo sapiens

<400> 38

```

gtcctaaaagt tcctgattcc aaagcctaag ttaagccatc ttaacttata tttcagggtga 60
ctagtgggaat tttttatgcc cagtgtaggt ggtaatgacg atggagatat ggcgatgatg 120
atgatgatga tgatgatgat gatgatgatg atggcagtag tgggtgggtggg gttgggtgatg 180
gtgttgaaga tcaccatgtc tgaccactgt tgtctgtgtc ctttgtacaa ttgttcagat 240
gcagtgtcct ggttgtcaca tagatgtctc tgactgtttt acaggccttc acctaccacc 300
atatccagga gatcatggtc cagctgctgc ggacagtga cgggacagtc a 351

```

<210> 39

<211> 364

<212> DNA

<213> homo sapiens

<400> 39

```

ttaaccact gctcccattt tgctgggtgga aaactgaaaa ccaaagagat taagtcattt 60

```

223/289

```

acccaaggct atgtaactaa tatattgaat ctcagatggt ttaatgattt tgactcattt 120
ccaatttgcc tggctatata gagaaaatat ttgaggaatt gacaggggaa acacacacac 180
acacacacac acacacacac acacacacac acagagggag ggagggggaga gagagagaca 240
gagacagaca gagactgaac agattatttc tccactgatg ttcattattt agatctattt 300
tcaacattta aaggcaattg tcagcatagt caattcagcc attttaaacc atcaagggcc 360
aatg 364

```

<210> 40

<211> 161

<212> DNA

<213> homo sapiens

<400> 40

```

gcaacctatt tgtagcagc acatgcgtgc gtgtgcatgc acgtgggac acacacacac 60
acacacacac acacactctt tgcaggggaa ttttgagcca gaaatttatc tgtaggcca 120
tattcattcc tttttgcaca tttctattgt gaccttgggc a 161

```

<210> 41

<211> 269

<212> DNA

<213> homo sapiens

<400> 41

```

caattccaca cagctggaga gtaacaaagc cagaaatcac atccatttgt gtgtgtgtgt 60
gtgtgtgtgt gtgtccaaat cctgtgatcc cagtgccagg atacactgtc ttccgtgttc 120
aacagtcatg aaagtatttt aatgaacacc tggccctgca gtgcctgatg tagcaaatgc 180
tgcagatact ccaccaccg actcttggac caccctaaat ccactggcag cttcagttag 240
gctttcctac ttctttcttt ccctgggct 269

```

<210> 42

<211> 251

<212> DNA

<213> homo sapiens

<400> 42

```

cactggactt ggagtcagga catcatttta acagctttat cgagatgtaa tttacatgcc 60
atacaattta cccaaagtgt acaatcattg actcttagta tgttcacaga gctatgtaac 120
catcaccaca atcaatttta caacattttc attactccta aaaagcaaac ctgcacccct 180
tagccactgc tctgccaaca cacacacaca cacacacaca cacacgcgtg cgcacacaca 240
cccaaact c 251

```

<210> 43

<211> 141

<212> DNA

<213> homo sapiens

<400> 43

```

cgcgtgtacc tccacataga tgtttgccaa tgcctatgcc caagacacac acacatacac 60
acacacacac acacacagga tacattcaag cacacactaa tgtatgtgca cttgcctgca 120
cagagtccac atcacacagg c 141

```

224/289

<210> 44
 <211> 328
 <212> DNA
 <213> homo sapiens

<400> 44
 agcttctagt ctgctatgtt gctaattgtc ttcttgggtca tcttttaaaa ccatttctgt 60
 gaaattatag cctccttact cccttaccct gagtctggat gtttctgaag atgactgac 120
 tctacagtga gaaggccctg ggaattgact gactcactct ctctgtctct ctctctctct 180
 ctctcacaca cacacacaca cacacacaca cactcatata catacacaca tagatacaca 240
 tatacatgca tccacacatg cacaccctgg gcacacccac acaccctaca actgcacatg 300
 catgcacaca cataatgtta actgaagg 328

<210> 45
 <211> 313
 <212> DNA
 <213> homo sapiens

<400> 45
 agcttttggc tatggaacct taggcaagat gttcataaac cctttaatct ctagtgcct 60
 tgttcataaa aagaagtga tggatccct gcaggactgt ttttgtattc agtgcacagg 120
 tgtgtgtgaa gacaccacagc atgttgccag gcacacagag atgtctacct tgatactttt 180
 ctctcctcct ccccgcaa at acacacacac acacacacac acacacacac actcacacac 240
 tcttattttg atcttggcct gaggctgaca agccccagat tagtgatcag tgacaatttc 300
 ggctttatca gct 313

<210> 46
 <211> 242
 <212> DNA
 <213> homo sapiens

<400> 46
 cgaggatgca cacctcatta attgaggagc taggatttag atccagagcc tcatgattct 60
 aaagcctgtt ttttgtttgt ttgtttgttt gttttgtttt ggccacacta ggtttctaga 120
 aacttccagt tccttcttaa aagtcctttt tgggcattcc ggcctaaatc ccaaaactgt 180
 ggtctgggta caagagagaa ttaggccagt gagaaaaatt taaaccaccc tgccctctaa 240
 at 242

<210> 47
 <211> 623
 <212> DNA
 <213> homo sapiens

<400> 47
 cttgatgtct tctttcacca tcccctggca cccgcctata catttattac ttgaaacaga 60
 ctgaccttta tttgggttagg ccactgtggt caggtttctg caacatgggg tcacatgcct 120
 tcccactga cacaagtctc aagtcctttt tctcttcttt ttataacttc tagaagcata 180
 gcttctacca gataaggatc taaccttttc agtggaatac aaaaatggca aagaagtaaa 240
 gaaagaagag agagaaagaa gaaagaaaga aagaaagaa agaaagaaag aaagaaagaa 300

225/289

```

agaaagaaaag aaagaaagaa agagagaaaag aaagagagaa agaaagagag aaagaaagag 360
agatggagag agggaaaggaa ggaagaaaag aaagagaggg agaagaaaga agacagggaa 420
ggaaagggaa gggaaaagag ggaaggggag aggggaggac aagggaaggg gagaggggag 480
gacaagggaa gggaggaagg aagaaaggaa ggaaagaagg caggaaggaa ggaaggaagg 540
aaggaagaaa ggaaggaagg aaggaaggaa aaataactag ggcctttcac ttttgccttc 600
aatagcagag tggccctgga tat 623

```

<210> 48

<211> 372

<212> DNA

<213> homo sapiens

<400> 48

```

tattggcaga gggtgagtcc agtgtataaa agcaactata tttgtgcaat aaggcaacct 60
ctaaacacaa gttactactt catctaatagc cacacacaca cacacacaca cacacacaca 120
cacacgagtc atctgttcca aggctgttgc ctttactaag tgatgctatg ttggtccttg 180
aggtggtgcc ttcctgaggg ttttcaagca tagctttggc catgcacagt tttcttctta 240
tacacactct gaggagcccc gccgtcacgg taatgcacct gcctcacaag ctggtgggca 300
gcttaaataa aatacacatt ttgctccagg cccagcacta gctcatcaat gtgagctggg 360
gttagcctca cc 372

```

<210> 49

<211> 140

<212> DNA

<213> homo sapiens

<400> 49

```

cagtagccag gaagctgagg aacacacaca cacacacaca cacacacaca cacacacaca 60
aacacacccc ttcctggctc cagttccgca ccacccaca cccccaacac cggaagtaga 120
tttctcaata ggcagggctg 140

```

<210> 50

<211> 301

<212> DNA

<213> homo sapiens

<400> 50

```

tttgccagaa tgcctcaca ccaaatagtg gaccccttct tttgctgatt tatctgctat 60
tgtataggtg tatgtgtgtg tgggtgtgtg tgtgtgtgtg tgtgttaagg caggtggtag 120
tatgtgtagg gtagggtttc ccagtcacc tggagccctg agtgcctgct tccctaaact 180
aggccagttt agctgactgg cttcctttgt gtattgggtcc attctgcac aaaagcatct 240
gaattttcat tcaatctctc ttctgaattt tcacttttaa aaacctgacc agtcccttgt 300
g 301

```

<210> 51

<211> 203

<212> DNA

<213> homo sapiens

<400> 51

226/289

```

ctcctccatg gtagggactg gttctcttag gcccctgtat cctcaggccc agcatgcttg 60
ggaaaatggt tgctaagtgt ttgtgactca aaaggaatca cacacacaca cacacacaca 120
cacaaacaca cacacacagt ttttaatat atcagtcata tcagccccct gaggcagctg 180
ctctgttcca gacaaaccct gtt                                     203

```

<210> 52

<211> 138

<212> DNA

<213> homo sapiens

<400> 52

```

gggtacagga gagttgtggt gggcattagt actactcctg ctgctgctgc tgetgctgct 60
gctgtgtcca ctgttagtga cagaagtggg aaaatatatta agttgagttc acattagtgt 120
tcccagttta gcgtgagc                                     138

```

<210> 53

<211> 250

<212> DNA

<213> homo sapiens

<400> 53

```

ccatgagttc aggcagtggg ttaaataaga tttcccttga agtcgaatga aatcacaatg 60
caccacacac agggacacac acacacacac acgcacgcac gcacatcaca cacacacaca 120
cacacacaca cacacacaca cacacataca cacacacagt ctccctgggg ccaatctact 180
gccccctgaa cctcacccat cagccagggt cctggccccg ggtctgtctc ttaggggttac 240
atgctccccg                                     250

```

<210> 54

<211> 664

<212> DNA

<213> homo sapiens

<400> 54

```

acttatggaa cacctactca gtgccaggta ttgttgtaga tgccaggagt acagcagggg 60
ataaaacaac atccctgtcc tcgacacaaa cacacaagta aatagagaag gtcagagata 120
aatgctgtgc aggaaaacaa agcaaagtga gggatggaga gtgcggaagg ttggggcact 180
tttgtttcag atgagtgtca gggaagcccc cttggaggag gcactgtaag ggcacagaat 240
cgaatgaaag gagtatgtga aggtgcttaa attgtttctg tttggtttgg tgtggtgtga 300
tgtggtgtgg tgtggtgtgg tgtggtgtgg tgtggtgtgg tgtggtgtgg tgtggtgtgg 360
tgtgatgtga tgtggtgtgc ggtgcggtgc ggtgcggtgc ggtgcggtgt ggtgtggtat 420
gggttgaggc tggccttagg agcctgttgg ccttcaggc cagtcctgaa gccagccca 480
gagcaccaga ctctgcagtc agtcagtgga gggcccacat ctcagccaat gcatggcttt 540
gggtggtgac ttcattctcc ctagtgttcc tttccccctc tgcaaaatgg gaatggggat 600
ggctcagaac tcccagcggg agttaggagg aataatgtat aggaagtatg agcagagtgc 660
ctgg                                     664

```

<210> 55

<211> 120

<212> DNA

<213> homo sapiens

227/289

<400> 55

tgatgtgtc gttcccatag ccccgctgtg tgtgtgtgcg cgtgtgtgtg tgtgtgtgtg 60
 tgtgtgtgtg tgtgtgtgtt tgggtggggtg ggaggggagg cagaagagga agagagggca 120

<210> 56

<211> 139

<212> DNA

<213> homo sapiens

<400> 56

tggatgatcag ctcagtgtcc ttggaaaaga gcagaaagtg gtatcacgaa catatcttct 60
 cctttgtctt cttctcctca ctcttcatca tcatcatcat catcatcatc aaatatggat 120
 ctgtgaggct acctctggg 139

<210> 57

<211> 340

<212> DNA

<213> homo sapiens

<400> 57

ggaggagaga ccagcattca cattcagtta ttgttgtttt aaatccatta cgcacatata 60
 taggagaaaa tttcagcaac agtcaccctc tgaaccaggt tcctcagttc tctccagagg 120
 caactaaaat gctcaattat tagtgtatcc ttttggaat attttatgta tatgacagtg 180
 tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgttcctttc caatattaaa ataataattaa 240
 cattggtaat agtggtaact aacaacttag ggtgtttttt ttttcattta atagtatatt 300
 ttttagtatct ttccaggaaa agatacatgg atgtgccaca 340

<210> 58

<211> 362

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> 49, 53, 57, 259, 322

<223> n = A,T,C or G

<400> 58

tcaataaatg attctgggga tgtgtctgtc tgtccatctg tctctctcna ganacanata 60
 cacacacaca cacacacaca cacacacaca cacatcctgt tagttctgtt tacctggaga 120
 accttgacta acatacccat taaaaccaa atatgtcctt caggggtgtta atgtttgggt 180
 gaagaaacac agaagttaa caattgtatc aggctgggca cggcctataa tcccagcatt 240
 ttgggaggcc acaatgagng gatcacttga gccaggagt tctagaccag cctatgcaac 300
 atagtgaagac aaaaaaatga anaaaattag ggggtgtggtg gagcgcacct gtagtcctag 360
 ct 362

<210> 59

<211> 187

228/289

<212> DNA

<213> homo sapiens

<400> 59

```

gagttctatg gaacagcatt tattgaataa taacatttca ggaaaaaata taagctttac 60
tgtatattaa aatacatata tacgtttata tattatatat tatattatat tatatattat 120
atatattata tatattataa tttttatata ttatatagat ataaatcaac tacaagatcc 180
agttcaa                                           187

```

<210> 60

<211> 219

<212> DNA

<213> homo sapiens

<400> 60

```

ttgcctaaga tctaggtggt caaaagaatt tctccaatcc acttcagcct gttattatgt 60
atgtattctg ttttaaataa gaaacaagag tcattttctc cagaataata gaaccatagt 120
gacacttgaa gtaagtcctg tggctcctgat atgataataa taataataat aattattatt 180
attattatta ttattttgag acgaggtctg tatctgttg                                           219

```

<210> 61

<211> 302

<212> DNA

<213> homo sapiens

<400> 61

```

atggagagac acggagttgc ttgaggggtac agtgcctgta gatactcaat aaatatttgt 60
ttaattaaga aaatttctgt tatttgtgtg ctcatacata ccatttcagt ctggtgagta 120
ttgttctttc cttagagttta cttttaatct taagtatttt ccaggtcctt tgttgacttc 180
tgtttaaacc acagtacaca cacacacaca cacacacaca acttttgtgt actataatag 240
cttcccaaaa attataattt agtcattgtg atgcagatct tcttccaagg cctctacttt 300
gg                                           302

```

<210> 62

<211> 368

<212> DNA

<213> homo sapiens

<400> 62

```

aaacaaacaa acagaaacac caaaatggat tccagcatct tataagtgct ttctcttatg 60
atcgagagta agacaagcat ggctactccc ttctcttcta ttaaattattg tactaggggt 120
tctattgaga taaataggca aaaaacaaaa caaaacaaaa caaaaaggca tccagattta 180
aaaaaaaaag gaatctagga ataaagggat tacatctcta cttgcagatg acatgatcct 240
atgtatagga aatcctaagg atccactgaa aaactgttag aactaataac atcagtaagt 300
ttgcaggatt ataagattaa tacaaaaact cgactgaatt tctgtgcact tgcaataaac 360
aacccaaa                                           368

```

<210> 63

<211> 247

<212> DNA

229/289

<213> homo sapiens

<400> 63

```

tctgcccaca cacttttatgc tttaaaacaa aaggccatgt tgaacttgta gaaccaaagt 60
attgctaatt acttggggcg atactagtga tatattatct tacatacaca cacacaaaac 120
acacacacac acacacacac acacacacac ggcttgagtc cagcatggcc tactgatttt 180
aaaataggaa atgacagtgt aaatgccagg ataaaggaca aagtgtctctg acctgttgcc 240
aaacctt                                         247

```

<210> 64

<211> 270

<212> DNA

<213> homo sapiens

<400> 64

```

gggttttagga cccacgtatc ttttgtttgt ttgttgttgt tgttgttgtt ttggagttca 60
acatgtttat ggtgtgtagc catggttgaa agcttttatt ttataagata gacaaagcag 120
gaattattat tctcatttta caggagaaaa acagaagggc tatgtgggtt gttaaaaggc 180
cacacagaca gttaaagaaca cagcctttac atggtcagcc tcacattcta gtactcattt 240
tattacactg ctcttcttct ctgttgccctg                                         270

```

<210> 65

<211> 261

<212> DNA

<213> homo sapiens

<400> 65

```

ctggcctctt tgcccatttt ctaattggat tatatgtggg gttttgttgt tgttgttgtt 60
gttgttgttg ttgttgtttt gctgttggtga cgttagagtt ccttgatatat tctagatatt 120
aatcccttgc caattaatag tttgccagta ttttctccca tcctgtaggt tgttcactct 180
gatgattgtt tcctttgctg tgcagaaggt atttaatttg atataatccc atttattttac 240
ttttgtttct gttgcctgtg a                                         261

```

<210> 66

<211> 304

<212> DNA

<213> homo sapiens

<400> 66

```

ccatccaggg tctaactcca gcatttgtat aaacttggac aatacttttg ctacaggggt 60
gtcattgaaa gtattgcctc attatatattc ttagtggtcc ctgtatgaag ccatataaga 120
gaaacttctt aatttagcac taggaaatgc ttctgttgac ttgagatgtg tgtgtgtgtg 180
tgtgtgtgtg tgtgtgtgtc tgtgtgtgtg tgtgtgtgtc tgtgtgtgtg tgtattcccc 240
taattgataa actataaaat aatctttctc ttttcacttt ggccatctgg aaatttgcca 300
ccaa                                         304

```

<210> 67

<211> 371

<212> DNA

<213> homo sapiens

<400> 67
 tggcttccca atcctagaaa aggaagaaag ctgcatgttg ttgttggtgt tgttggtgtt 60
 gttgttggtt ttgttggtgt tagatggagt tttctgtcgc ccaggctgga gtgcagtcac 120
 atgatctcag ctcaactgcag cctctgcctc cctggttcaa gcaattctcc agtctcagcc 180
 tcccaagtag ctgggattac aggtgcgcac caccactcca ggctaatttt ttgtattttt 240
 agtagagacg gggtttcacg atgttggcca ggctgggtctt gaactcctga cctcagggtga 300
 cccacctgcc tcggcctccc aaagtgtctg gattacaggc gtgagccacc gcacctggct 360
 gaaagctgca t 371

<210> 68
 <211> 258
 <212> DNA
 <213> homo sapiens

<400> 68
 gccttcgcag attgtacctc ttcctttcac ccttctcgct ggctgtgtct tctctctcca 60
 tcgtgggtctc ccacgccttg gtttctcctc catccccatc cccatctttc gtgagcccct 120
 ccaactctct ccccggtgtt tgtacggtct cctgcgttca cttgatttcc tctcaccac 180
 ccccgcccca aacacacagg cacacacaca cacacacaca cgcgcacaca cacgggcctc 240
 tcgcactctc cttctcct 258

<210> 69
 <211> 226
 <212> DNA
 <213> homo sapiens

<400> 69
 tgactcttgg cctctgtgtg tctctgggtt tctttgtctc cctcctctcc acggtcctct 60
 tgtccttttg tcttcccttt cttgtttctt gaatctcttt gcctttatgt atctgtcttt 120
 ctctctctct ctctctctct ctctctctct ctctctcttc tttcctttct cctgactcc 180
 ctctctccct cttccaggcc cagctcccag tagctcctaa ggcaaa 226

<210> 70
 <211> 215
 <212> DNA
 <213> homo sapiens

<400> 70
 catttgggat aaatgttgct tttagttttc aactactttt tctttggctt attctctctc 60
 tctccctccc tccctctctc tctctctctc tctctctgtg tgtgtgtgtg tgtgtgtgtg 120
 tgtattcatg ttttcttaat ctatctgaat tgttgtgtcg gttttccatg cgaatttcca 180
 gttacctcca cagtattcgt ttcagaatgc ttcct 215

<210> 71
 <211> 370
 <212> DNA
 <213> homo sapiens

<400> 71

231/289

```

ttgcagtttc atgaaccaag tattactgcc tcaacaatta aaaacaacag acaaattatt 60
taaaaaacca tgaggcgagt ggtggctggt ggctggtggc agggcggggg cagggtggcc 120
tctgtgtctc atgctttctg gttggtctgt ggtctttgca ctgagagcta gggccttgca 180
cattcattca ttcattcatt cattcattca ttctttgaat tcaacattac tatgcaccag 240
gcgctgagaa ggcagcctta gacagatgga aatccttgct ttccgggaga ttccattcta 300
atgggtcatt gattcagtggt cctcttcagt catttgttca tatgcattta ctctacctc 360
tcatgtgcca                                     370

```

<210> 72

<211> 339

<212> DNA

<213> homo sapiens

<400> 72

```

aactgaacct gggctgtgtc agtctaagac ttatgcttgg aacctgtaag aagaacaagt 60
gtgcgtgcat gcatgtgtgt gtgtgtgtgt gtgtgtgttt ggagggatag tgaagttttt 120
tcctacagct acaaatagaa catgctttcc tatacaattg tactaatcaa tattatttcc 180
ttacattatc tccagccatt tccctataat tagacattca gattatttca aggttggttat 240
tcctataaac agtgatgtga tgaatttttt aaagttgggt cctcacatcc gtctgttctt 300
gtaaatgtat ccatcataga actggaccac aaaggttgg                                     339

```

<210> 73

<211> 150

<212> DNA

<213> homo sapiens

<400> 73

```

gggagttctc tttcttcaag tgcttagggg agaaaataag tgagaaaaag agagatagag 60
gaaggaagga aggaaggaag gaaggaagga aggaaggaag gaaggaagaa gaagaaaagg 120
aaacgaaaag gaaaggaaag gaagaaagga                                     150

```

<210> 74

<211> 331

<212> DNA

<213> homo sapiens

<400> 74

```

tccatgttat tctctacctg ttggttcctt cctcattgaa aattggtgta tagatggtag 60
atagatagat gatagataga taggtagata gatagataga tagatagata gatagataga 120
tagatagata gatagatttt tatttttgggt ctatctcctt tactaaacag taagctccat 180
gaaaatatgg atcatcactg tcttattcac cattatattc tcagcatatg gtattgtcct 240
ggtatagaat agattctcaa taaatgcttg ctaaataaat gcattcatga gtgagtgaat 300
gaatgaatat gcgagtggat gagtgtgtgg a                                     331

```

<210> 75

<211> 370

<212> DNA

<213> homo sapiens

<400> 75

232/289

```

tgcttgaggg caggatctat atgtaattcc tttctggaaa accagggatt gaaacaggat 60
ctggcatgca atgggctgga tgggtgaatg gagaaataga tgaatgacag atggatggac 120
aaacagatgg aaggaaggat ggatggatag atggatggat ggatggttgg atggatggat 180
ggatggatgg atggatggat ggatggatgg atggatggac agatggattg gttggtagat 240
gtgtggatag atggatgggt gaacaagcga gtagatggat gagtaaattg ctaaactctgg 300
tgcttttctt ccagaatcct ggattctgaa gggaggcttt gcagcccttc ctcgtggatc 360
acttgctctg                                     370

```

<210> 76

<211> 251

<212> DNA

<213> homo sapiens

<400> 76

```

ggctgaatta ctgggcatgt ttctgagaag aaagaacttc tattttaatt atatatctac 60
agaaacaaaa ttgcctgctt acagtgttac atgtctgatg attggaagtt tttgtttgtt 120
tgtttgtttg tttgtttgtt tccacagact agcctctgac tccatatatt tcaaactttg 180
ttcctcttcc actaccacac tatttctgat gtgagacatt ctagaaaaat ttcatatattgc 240
aagacggctt c                                     251

```

<210> 77

<211> 363

<212> DNA

<213> homo sapiens

<400> 77

```

ttggcaggat tcagttcctc atgggcacca gacggagagt ctcagcaaat cactagctgg 60
tgactgcagc caccgcagtt ctttatcacg tggttctctc catagggcag ttcacagtgt 120
ggtaacttgc ttcacagag caagccagga agaagacca gagacagaca gagagagaga 180
gagagagaga gagagagagg aggcctctga aagagagaga gaagagagag aggcaaagag 240
agaatgagaa ctccagaagt cactgtcttt tatagcctaa tcttgaaagt gacattcatc 300
actttcacta cattttcttc cccagcagtg ctcagtggga ggggattata cacggccatg 360
gat                                             363

```

<210> 78

<211> 203

<212> DNA

<213> homo sapiens

<400> 78

```

gcacatttgc agaggtttga ggtcccatca ttagccatgc ttcttggttc ctgcactatg 60
agtatacgta tgtgggctga tggcctcatt cactggatac acacacacac acacacacac 120
acacacacac acacacacac ctcaccaggg acttgggagt atctaaatgt ttgagaatca 180
tagagcaggg agacatccaa cac                                     203

```

<210> 79

<211> 326

<212> DNA

<213> homo sapiens

233/289

<400> 79

```

gggcacatac agctttcctt gcaggaaaaa aacctgctta actttgttta ttatatatta 60
tttgatctgt gcttcatata ttattcatat attatttgat caagttgctt catgtattat 120
ttgatcaagg aatcatgtgt gtctacagca cctattaaaa ttccctggca ctgaaattct 180
gtagaaaacc atttaggaaa agttgatcta actgtataat tattagtaaa acatatacac 240
acacacatac acacacacac acacacacac acacacacca caagcaaaca aaaaaaaacc 300
accttaatgg tctcctaacc aaggca                                     326

```

<210> 80

<211> 266

<212> DNA

<213> homo sapiens

<400> 80

```

gcatgttcgc cacagagatt caattaatth aaataggtag aggacttggg gcagtgccta 60
ggacaacatt acactcaggg atgggtgatga tgatgattat aatgatgatg atgatgttga 120
tgatgatgat gttgataatg atgatgatga tgatgatgat gatgatcatg atgataatgg 180
aaaagaagat agaggaggta gaagaggaga caatcatgat gttggaggta gactccaatc 240
ttcagaatca gaagctcagg gttgga                                     266

```

<210> 81

<211> 224

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> 18, 197

<223> n = A,T,C or G

<400> 81

```

agcttaatct attatttnag aggcagaaag ttaacttgct taccctgaaa agaagtgcaa 60
atatatccca aaagtgccat tctttcattc atccactcaa acagatacac acacacacac 120
atacacacac acacacacac acaccctttt cacccttggt tagtgtacag tctctgagtt 180
gtaaaaaata gtcattnctt tctgcttgaa agactgtatt agct                                     224

```

<210> 82

<211> 328

<212> DNA

<213> homo sapiens

<400> 82

```

ccagcatgat cctatgaatc cttataaaag ggagatggga aaatttcaca cacacacaca 60
cacacacaca cacacacaca cacacacaca cagatagaga cagagagaag aggataaggc 120
aatgtaacca tggaggcaga gatgggagtg ctgtagccac aagctaagga atgctggcag 180
ccacagatgc tggaagagtt gaagaatggg ttccccctga gggagcacag ccagatgcat 240
gctttgagag ttcagcccag tgctactgac tttagactta tggtttccag aactacaaaa 300
aattaatttc tgcgttttca aaccatcc                                     328

```

<210> 83

234/289

<211> 257
 <212> DNA
 <213> homo sapiens

<400> 83
 caaacgtcgc tgacctgagt ctgacctggg ctgcctcgtg ttaccaacat gaaaagggag 60
 tgagaaaaatc tgaggccaat taacttctct cctctctctct ctctttttct ccccttgccc 120
 acctctctct ctctctctct ctctctctct ctctctctct ctctctcttt tttccccctc 180
 ctcttcttgg agacatgatg aaatttctct aaacaaaaac tcgcagcccg ttcaataaaa 240
 tgctttcgcc tttggtg 257

<210> 84
 <211> 223
 <212> DNA
 <213> homo sapiens

<400> 84
 acagttgccca tttgctcatt taaaatgtag tgagggtgtt taaagagggt ttgttcaatt 60
 taccaaaaaag ggaaaaaaag ggaaaagaag aaacttattg ttgaacgaac acacacacac 120
 acacacacac acaaagagcc tggcttaatt tagggataaa gcaaagaagt caataaccccc 180
 acatcaacta ttgaaaccta agctattgct ggagttgaca gcg 223

<210> 85
 <211> 364
 <212> DNA
 <213> homo sapiens

<220>
 <221> misc_feature
 <222> 7, 61, 86, 339
 <223> n = A,T,C or G

<400> 85
 agctctncct agcattgttt tcctttgctt catttcctct taaatgtgtt ggatgcactt 60
 ngttcctgct aactaatcta tctttncagt ttcaaataca atgaaccagc agaattttatt 120
 tttacattat tatcttcaga tttagatttg ttttgctttt aatcctgtct tcatgaaggg 180
 gaaaagccatg tgtaccagca tggttgataa accaccaaata cgtgaaactt tgcttgctcc 240
 ccaaaccctcc aaccacacac acatacacac acacacacac acatacacac acacacacac 300
 acacacacac acacacacac acaacctggg aaattgggna gaaaactggc aaaccttaaa 360
 ctag 364

<210> 86
 <211> 619
 <212> DNA
 <213> homo sapiens

<400> 86
 cctgacagcc ctcacggtca ttctctgtgc taggaacggt gttgtcttac ctcaccagga 60
 aggcagtctg agggagaaga gagggcttta cagccagaca cacctgggtg gggcttgggt 120
 caagtgtctt catctctctg agtctatctc cccaactttt aaaaacagac agtgtatgta 180

235/289

```

ctacatagga ggggctctca taactgccat cccttccact ttcctaactt tgcccccata 240
caccctcacc cccatcaagc ccttgcccag gacagatttg gacagctctc ctctactcag 300
ataaaaaaaaa aaaaaacaaa aaaaaaacga aaaaacggta tccagatgca ccagggtgtct 360
ccaagttgaa gctttaaaaa cctgtgactg aaagaaaaaa aaaaagttct cattccttat 420
cattgcaaag agcccatagg atctgattag tttatcttct caattccaaa caaagccaga 480
tcaatagggtt tgttttaaaag acactctcat ttggcttcac atggctaagt acttaaaatt 540
aatcataatc agttattcca tgggttttta atttccagca gaggcacaca gctttgaaac 600
catccatctt aatggtgag                                     619

```

<210> 87

<211> 1095

<212> DNA

<213> homo sapiens

<400> 87

```

cccttttacc caaaatctaa tcagaccaat cctaccttcc aaatatcaact tttcatttcc 60
ttttctcttc ccactgctgt caccttgtgc atgggctatt acagctgtcc tatctgcac 120
ccaccatcct ctgactgca cgtggagtaa cctttctgaa acctccattg gagcttgact 180
tgactccact taacatctga agatctttcc gagggttccc cactaccag actctcatca 240
ttgcatgtgt tcctctgtgg tctggtctgg tgectgectg cttctctgtt ctcatgggtg 300
acacactcac cacactccat ttgcttcata ttcactctgt ctgtctgtct gtctgtccac 360
ctccctacct cccctctctc cctcccctac ttcctctcct cataccaaac ctcttggtga 420
tccccagtgg gtcattgatgt ataaacattt gcacataata ttgcctctac ctgtcataac 480
cttgtgataa ccttaccgca catagagtgt gctaagtgtc cagtgtctcc agagaccct 540
gggcatgcct ctaggggacc actcctatag gtctgagttc cctcrgcacc cagggtaggg 600
ccctctctct ctagtgaatt gcagagggcc tgcacatggg aagtgtctac agcctgcctg 660
cctccctgcc tgtggaacaa atgggattga actctgacct taaaaggact gtgacgggtga 720
tctcctggga catgcattct agggccctcc aaggcagttc ctcttctca tatttcacct 780
gtcgtgtgca tgtactcct ctctcgactg tgaaatggga gcacctggaa ggtggtaccc 840
agcagcaatg gacggtctct ggagtcagac tggcactcca gacctctctc aggcactgag 900
gagttgtgtg cccctttaat atgtgcaaaa ctcactttcc tcaactgtaa attgggggtg 960
gtcattgtta tcacctctaa ggattgttgc aaggattaac tgagataatt tgcataaagc 1020
acatagtcta catctttgct cttcaataaa gggcagccat tgctttgtta tttcctagct 1080
gtaccttcta cttga                                     1095

```

<210> 88

<211> 644

<212> DNA

<213> homo sapiens

<400> 88

```

tcattctcagt tcaccagct ggtaagcgca caatgggatt tgtgggagcc tacacagccc 60
tgaagctgac caatggtcct ctgggacatg tatgacctg agttaagagt agacgcagtt 120
ctaggtgata gttcaagtcc ccctgagctc tgaagtacat aattcacaga tttttttttt 180
ttccatcac taataaccaa acatttgagg aaataacccc tggcattctt aaggcttctg 240
tgcatcagag gtggtcacia ggtttacaat ttaaagaata tttggggatt aaactcagaa 300
aaccaagcca ccacagtgcc acatttctgt cttttgtggg tgtcttaaaa atgaatgctt 360
tcttatcgta gtttctgacc agaggcagct tccttttaaag gctaaaggaa gcagcccgtc 420
tcagctccag caggtcagta atgtgacgag ataaagggca gttccttaat gaaaaccact 480
ctccctcctg ccagyaaagg agttttctta gtgcatttca agtcctctaa cacctcttcc 540

```

236/289

cagatcaatg gctttttcata aatgcaccag gagatctttg aaccactaat gcttcagggg 600
 ctgttttaggt ttggagtc aa actgtttaat ataactctcc tcca 644

<210> 89

<211> 840

<212> DNA

<213> homo sapiens

<400> 89

aggtcagcag gacagccaag ccctgactca gcttcccagc cacagtgtga agcgtatgag 60
 tgtgaaagtc tctccttcag agaaaagacc agtgggccaa agaccctgcc cattcccgtg 120
 gctgtgcttc cccaagaat ctctgaggag gttgacataa tggggaagtg ctcagactct 180
 ggagtcaggc tgccctggagt caaatcctgg ttcttaccac ctttatgacc ttaagcaaata 240
 tgcattgctc ctccttagcc tcagttaacc catatgttaa gtggaaataa tataatcccc 300
 ctttatgatg ttgttttgaa gagtagtaat tattattgct gcttttattc catctctgag 360
 aattaactag gccaggtta tcacatctta gagactaaat cttcccttcc tagacaaata 420
 tgtgcccccm aaaaaagtc tttttatagt ttccctggctc tgaaatgacc ctccctaact 480
 agtaaagata ttttaacttca tcaactcttc tgttatttct ttgagtgggg ctgacctctt 540
 ccggcatatg gcttctaata ggctagggtat aaagtaggcc agagaaaaag aggggtgtaac 600
 ttccctgccc tgtcccttcc tcttgctccc accaagacat ggaaaggacg aaaagaactg 660
 aggagtccca gctccgctat taaccgctgc ctgcctaggg taggctgaaa aatggctctt 720
 ctaaaaatgc ctacatccta aactctaata tatgtgaatg tgtactccac atagcaaaaa 780
 ggattacaaa tcaagaattc aggttcttca agtggataga ttatcctgga ttatttgagg 840

<210> 90

<211> 401

<212> DNA

<213> homo sapiens

<400> 90

gggtgcagtg tgtgcaacaa ataaccacgc ctcttggtgc gtggcctgga ggtgcaagac 60
 caccacaga gcctgccctg gaggcgagct gctccgcctg gtaaccattt cagcaacggc 120
 catcacttga agaacaatgt gaatgcttgt agcagcctgg ggcccagagc caaacagccg 180
 ccatacactc tgaccgcaga grcagcagcc tgggtggggg ggattgttat catttaatga 240
 gatgcagatc aagacagcct ggggtctttaa tgcagtgtgc ctcttctctt cttgtttaga 300
 gatttgagtg aaaaccagat ccaggggatc ccgaggaagg cgttccgcgg catcaccgat 360
 gtgaagaacc tgtaagtgat gttttccttg cttcactacg t 401

<210> 91

<211> 613

<212> DNA

<213> homo sapiens

<400> 91

aatcagtaaa catatctata tgtattctag ggtctggtgg gcaagtgtac aaaatgagca 60
 aaatgataga ttcacctcct tttgctcatt tgagatgttg ttttaaatga gaattacagt 120
 agccctcaaa tgatgagaag cagtgacaat tcattagcag attgtggctt agatcaagtg 180
 tttgatttct ctgaggaagt gtaaccagta ctcagttata tgaagtatat gcgtttcttw 240
 tgaagataat ttttttcctt ttgtcagtta aaataacctt gagctttatt tttttcaaag 300

237/289

```

accccagcta gcagcagaca aatgcttcta taatttggtc ttcaataatg attttttaga 360
atgttaaact gtcataaaaa aaaacaacct tcaaaagcgc ttctagattt cctattctct 420
gcttaaagga caattggata atagggagga aagaaatagc atgtcaaggc tgcttcacat 480
tttgtcttct gccttggttc atgaaagcag ggattccccc ggttttcttt ttacagttac 540
aatattctat ttctcctccg tctagaaaaa gaatacttca gatatgtaca ttgatgaaca 600
tatatatatt tca 613

```

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<210> 92
<211> 619
<212> DNA
<213> homo sapiens

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<400> 92
cctgacagcc ctcacgggtc ttctctgtgc taggaacggt gttgtcttac ctcaccagga 60
aggcagtctg agggagaaga gagggcttta cagccagaca cacctgggtg gggcttgggt 120
caagtgtctt catctctctg agtctatctc cccaactttt aaaaacagac agtgtatgta 180
ctacatagga ggggctctca taactgccat cccttccact ttccctaactt tgccccyata 240
caccctcacc cccatcaagc ccttgcccag gacagatttg gacagctctc ctctactcag 300
ataaaaaaaaa aaaaaacaaa aaaaaaacga aaaaacggta tccagatgca ccagggtgtct 360
ccaagttgaa gcttttaaaaa cctgtgactg aaagaaaaaa aaaaagttct cattccttat 420
cattgcaaag agcccatagg atctgattag tttatcttct caattccaaa caaagccaga 480
tcaataggtt tgtttttaaag acactctcat ttggcttcac atggctaagt acttaaaatt 540
aatcataatc agttattcca tgggttttta atttccagca gaggcacaca gctttgaaac 600
catccatctt aatggtgag 619

```

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<210> 93
<211> 402
<212> DNA
<213> homo sapiens

```

```

<400> 93
gaggggaagga gggctccacc tgaataaaaa agtcagggca tgctcttctc gtctggagac 60
ctgtccactt gtcttcagct gctccactgg ctgggccatg actgttgact catgggtcttg 120
cagtcacaac catccctccc ccgacctact acaagcatct tgggtgcctcc cctgctgctg 180
cctggctgac catctccctt stctatctcc acagtaccct caacaacaac aacatcagtc 240
gcatcctggt caccagcttc aaccacatgc cgaagatccg aactctgtga gtaagaagtc 300
tgtgcatctc tcccattttc tccctacctc acgccc aaag tgcagcactc tacgctgctt 360
gtcaaacctc ccatgctatg actaggcaga tggttccgac at 402

```

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<210> 94
<211> 402
<212> DNA
<213> homo sapiens

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<400> 94
gaagcactca gtgcatagga gggtttcagg aagcgatact cttactcaag gtgggtaggc 60
aagtcctgag aggacagtag aggggaaggag ggctccacct gaataaaaaa gtcagggcat 120
gctcttctcg tctggagacc tgtccacttg tcttcagctg ctccactggc tgggccatga 180
ctgttgactc atgggtcttg rgtcacaacc atccctcccc cgacctacta caagcatctt 240
ggtgccctcc ctgctgctgc ctggctgacc atctcccttg tctatctcca cagtaccctc 300

```

238/289

aacaacaaca acatcagtcg catcctggtc accagcttca accacatgcc gaagatccga 360
actctgtgag taagaagtct gtgcattctt cccattttct cc 402

<210> 95

<211> 403

<212> DNA

<213> homo sapiens

<400> 95

gctattaaaa aatgagcttt gctcagaacc cgggagcat cctttggatg tgacctggca 60
atgaaagggt tggggctcca atgtttttgg tagtgcagag ggaattgctt cccctgggct 120
cctagggatt ttcacactgg agaaaggggc aacaggggtt ttggtcactc tgtctggcca 180
gtgacagcct ccacacttca cyctgtgacc atgccttctc tctgtcccgc cctctcccag 240
gcgccctccac tccaaccacc tgtactgcga ctgccacctg gcctggctct cggattggct 300
gcgacagcga cggacagttg gccagttcac actctgcatg gctcctgtgc atttgagggg 360
cttcaacgtg gcggatgtgc agaagaagga gtacgtgtgc cca 403

<210> 96

<211> 402

<212> DNA

<213> homo sapiens

<400> 96

cttaggatgc tgggtaagga cacagaagcc caggcagctc ctgacactga cataagttga 60
ccgttgtgtc ttggctccac agccccccac tcggagcccc catcctgcaa tgccaactcc 120
atctcctgcc ctctcgccctg cacgtgcagc aataacatcg tggactgtcg aggaaagggc 180
ttgatggaga ttccctgcaa yttgccggag ggcctcgtcg aaatgtaagt gcacctgtct 240
gacacccccca acaactgtcg ccggagaatt cagctccctg tcccagccca tcacccacta 300
ggccatcagc gtgtggggct gctggagctg accattaaaa acactcagga atctctttgc 360
tgtccttcca cactttccca gctatgatag cttggtggtc aa 402

<210> 97

<211> 402

<212> DNA

<213> homo sapiens

<400> 97

accgttgtgt cttggctcca cagcccccca ctccggagccc ccattcctgca atgccaactc 60
catctcctgc ccttcgccct gcacgtgcag caataacatc gtggactgtc gaggaaaggg 120
cttgatggag attcctgcca acttgccgga gggcatcgtc gaaatgtaag tgcacctgtc 180
tgacaccccc aacaactgtc rccggagaat tcagctccct gtcccagccc atcaccact 240
aggccatcag cgtgtggggc tgctggagct gaccattaaa aacactcagg aatctctttg 300
ctgtccttcc acactttccc agctatgata gcttggtggt caagagcata gactcgagat 360
cagaatcagc aagctatagc ctagggccag gggttccac tg 402

<210> 98

<211> 402

<212> DNA

<213> homo sapiens

239/289

<400> 98

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gtagcccca cccccagcct acaaatcaga cactctggag tgcattttta atctacaccc 60
tcgtgagggt tgagaagcac tggccaagag tcatcccagt gcccagaatc agttctagga 120
gcagctgctg tggctagggg caggtcatgc atggagggtca gtgggcagct ggagccatct 180
cccatctgcc ttccagctca rtgccctgca ttgtgcctcc atcacaacaa aatagcagag 240
ggggccttga gctgatagga gacttgagat gcttgctctg tgcccaaagt gctgtgtcca 300
gtcacttatg gctccaggta cttcacctct cagggtctgt gtttccttct tgcagaatta 360
agaattaaga cgcagtttgc caaatgttct cacttataca tg 402

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<210> 99

<211> 402

<212> DNA

<213> homo sapiens

<400> 99

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acttgagatg cttgctctgt gcccaaagt ctgtgtccag tcacttatgg ctccagggtac 60
ttcacctctc agggctgctg tttccttctt gcagaattaa gaattaagac gcagtttgcc 120
aaatgttctc acttatacat ggaatctaaa caaagccaaa ctcttagaag cagaaagtag 180
aatgggtgatg ttccagaggcc rgtgggggtga ggggtggggtga gagatgaaga tgacacagat 240
gttcgtcaaaa ggggtgcaaaa tttcaggtag acaggagaag taagttcaag agatccattg 300
tggtatacaa cacgggtgaat gtagttaaca acaatgtatc gtatacttga aaatagctca 360
gagagtagat tttaagtgtt cttaccacaa ataaatgata ag 402

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<210> 100

<211> 402

<212> DNA

<213> homo sapiens

<400> 100

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gagtacagta gtgaaaaagg aggaaagagt agaacaagga gtttgatctg taactgactg 60
tgaacaatcc attgagagaa ctactacct ttgaaccagc ctaaatatgc agtttttata 120
ataataaaga aaaagacaaa gtgaccaagg tcaattccca gctaaactgt ctatcacttc 180
tccaattccc actctccagc rcctccaaac cgtggggcat ctcacctcat actgtaggga 240
gagatgggtc cagaagtcta gttgtggact gaaaaccagt ttgccctccc agagctaaag 300
cagaggggtt ccgtgctggc cacatagctt cctcttgcaa ctagaggtct cagcaccttg 360
aagggacaat tcataatcag gggaaaaaaa gacaacacag gc 402

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<210> 101

<211> 402

<212> DNA

<213> homo sapiens

<400> 101

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ctctccttcc agtgacagga tcccagaggc catccctgag ctaatgactc taagagaaaag 60
aatttcccct cagtgaaggg ccattagcaa gagctgggtg ccaggttctc agaagtcact 120
gggatgcccg taattgagca gcctacaggg cctctgggaa ggagccaggg tggaggagat 180
tcctttgcac ctgcaaagcc wggtagctg ccccagaccg cgggcccagc attaatagaa 240
tcctcctggc ccacagcatc cctcttgctc tcattatcca aagcctggga cattcttatg 300
ccctggactt gctcccagat gaggaacaca ctgccagcca gtgacaagcc cacatctcca 360
aggcgtccct gagaatccca ggatgtgctt acatcacaca gc 402

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240/289

<210> 102
 <211> 402
 <212> DNA
 <213> homo sapiens

<400> 102
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 agcaagaatc agatatcgga tattgctcca gatgccttcc agggcctgaa atcactcaca 120
 tcgctgtaag tggggcccca gttggggcct gaggtgaggg gagggggggc gctggagggg 180
 agagagacgc aaccatattt ytcaggaggt gtttatcaag actttatgtt cccttacaca 240
 cttgtggcaa cctggtaaaa gaaacaaata tttcttcagg ggaaattgat cttgggggaat 300
 atttctacaa cccaaatgca ttatttttat tgattaagcg cctggcagct ttcccagtta 360
 ttggcttcta attcgaatgc atcttctact ccaacctcac gt 402

<210> 103
 <211> 402
 <212> DNA
 <213> homo sapiens

<400> 103
 ggatagagcc catttctact cacctcccag acaacctgcc cttccagccc ctggctgctc 60
 ttggctgcct ctgtctcgct gatgagaagg gattaggcag gccgtggaag gggttgtcct 120
 gagatctcat acccagaact ggccgaggtg atggcttcct gcaggactgg gttctggtgg 180
 cctcacatcc acagtgattg ytgtcttctc cttctctctt tcagggtcct gtatgggaac 240
 aagatcacccg agattgtcaa gggactgttt gatgggctgg tgtccctaca gctgctgtga 300
 gtaggaactt tgtcactgtt ggtgtctttg gtactgtcgg aaggctccca cctgaaaacg 360
 ttgagccatg ctctggagag ttcttttgac tttctgcaga ca 402

<210> 104
 <211> 649
 <212> DNA
 <213> homo sapiens

<400> 104
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 tatttattgc tggggtgtga gtcattattag cagcttaggg agataccaca aagagaccgc 120
 ttcttcctgt tggggattat gtattgggct aggttgccca ggaatggagc aggatagagc 180
 ccatttctac tcacctccca gacaacctgc cttccagcc cctggctgct cttggctgcc 240
 tctgtctcgc tgatgagaag ggattaggca ggccgtgga ggggttgtcc tgagatctca 300
 taccagaac tggccgaggt gatggcttcc tgcaggactg ggttctggtg gcctcacatc 360
 cacagtgatt gctgtcttct cttctctctt ttcagggtcc tgtatgggaa caagatcacc 420
 gagattgyca agggactgtt tgatgggctg gtgtccctac agctgctgtg agtaggaact 480
 ttgtcactgt tgggtgtctt ggtactgtcg gaaggctccc acctgaaaac gttgagccat 540
 gctctggaga gttcttttga ctttctgcag acaaaagaga aaaaaatgtt tgagctgtcc 600
 acgcttcacc tccgtttcct atttttatga aaggagagtc agcgagcgg 649

<210> 105
 <211> 815
 <212> DNA

<213> homo sapiens

<400> 105

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cagagagggtg ctgtgaactg cagatcactc cttttgttat ggctcagcat aattcacggc 60
tctgtgtcca tggaactttc tctggttcat tgtttcagcc cactaatgtt tgctctatga 120
gaggatagtc aaggagctgc ttgtgtttag agacccaatc gaggtgggac aatgagaatt 180
gtctccagca gaagaagcag actgacttga cgatgcgttc ttgaggaag ggttcttccc 240
tctcttgtgt acctggaaag ccattgrgta gacttaaatt ctggaatcat tccatgctag 300
tcattgaatg aatggttcac ccacttaaag gacggattgg taaccatgtg gcaatcagat 360
aggaaagtta ccaccctaag agtcctgagg gaaggaatgg gcaagccacc acaggtgagg 420
tcacttgatc tggtaaccaa ataatagttc tccctctctg gtctctagga atctcagctt 480
tcactgtgtt cccttaggaa aaccagtggt cttacagccc attcctagca ccctcctatg 540
tctctggggg agaaagaggt cttgtttttc agacaggccg cccaatgggt ttgctgcatg 600
cctggttact cttgcatcgg gaatcaccat gacaaccac agccattgac aagcagtgc 660
gtcaccaaca ggagagaagg gaagagccac tgttgccct agttgggact tggaggactc 720
ctcctgtttc cccttgagtg tttagcaaga cgtggcctac agcaccatt ttcaagcaca 780
gagaagattc tgggcagggg cagaattcat ggcta 815

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<210> 106

<211> 386

<212> DNA

<213> homo sapiens

<400> 106

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ctgggcagca gatcccaggg ccgctcccac agtagaagga tggaggctaa gcacccttct 60
ctcttcctag aaacctcctg tccaaccctt tcaactgcaa ctgccacctg gcctggctcg 120
gcaagtgggt gaggaagagg cggatcgta gtgggaaccc taggtgccag aagccatttt 180
tcctcaagga gatycccatc caggatgtgg ccattccagga cttcacctgt gatggtaaga 240
aggctgtggg tcaaggtctg cggggaaggc cctgggaagg caaggaagat ggccaagatg 300
cacaatcaga tactccctga gatccaattc cactttgctt tgggcatgca gctggagctc 360
tggagagctc tgcagatctg ctacta 386

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<210> 107

<211> 562

<212> DNA

<213> homo sapiens

<400> 107

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ctcattagtt atctcaggca gagctgccag cttacaaaac aaaattaagt ttaattcacc 60
aagaaaaaac aaaaaaaaag ttgccagca tttctctaaa gggcagagtg tgagaggctg 120
ttgcaagcat gcaagacccc agcaatgcc a tctgagcagg aggtgatttt tttctccagt 180
cagctctcta ttaacctca ctggcccttc tctcacartc tcctttcagt tctaccctgg 240
gtgagtcaag ccaaaactgag cctcattctc acattcagtc ttgcaagtgc tctttgaagt 300
agggctacag taccagttgc cctctttgtc tgacccaaa tcctgtgctc atgcccattc 360
caccagaggc tcttaaatgt ttaggtctca ggactccttt atgcttttca gaagcatcca 420
ggactccaag aacctgtgtt tatgtgggtt atagctattg atattgatca tattactaac 480
actgagaaaa tgttaaaata tgcattaatt ccatttaaaa gtaacaatta tatacccatg 540
acatgtttat ataaaaagca ca 562

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<210> 108

242/289

<211> 600
 <212> DNA
 <213> homo sapiens

<400> 108
 attaatatct acagtcagtt gacttttttaa acaatatatt taggaggtac aagtacaggt 60
 ttcttacatg catatatgtt gttgtggtaa agtctgggtt tttagtgtac ccatcaccca 120
 aatactgaac attgtgcca ataggtagtt tttcagccct cagcaccctc ctaccttttg 180
 tagtctccag tgtccattat tctactcggg atgtccatgt gtaccattg tcatgctccc 240
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 aatggcctcc agttccatcc acattgctgc aaaagacagg atttcattct tatttatggc 360
 tgagtagtat tcmatgtata tagatattcc acattttctt tttttttttt aatttttttt 420
 tattttaagt tccaggatag atgtgtgaat gtacagggtt gttatgtagg tatacatgtg 480
 ccatgggtgt ttgctgcacc tatcaaccca tcatctaggt ttttaagccct agatgcatta 540
 ggtatttgtc ctaatgctct cccttccctt gcaccccaac ccttgacagg ccatgggtgtg 600

<210> 109
 <211> 708
 <212> DNA
 <213> homo sapiens

<400> 109
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 tgtgggttca ctgccaggag gtgggacctg ccaatttttaa ggaatctgca tgcattctgtt 120
 cataattaga gtagtgatgt ttggggcaac tcaatatgta agagggagag aaaatgtttg 180
 cccgtccatc tgtctgtctt ttgggggtgrt ggggggtgatg ggggtgaacac caccagcctg 240
 accagggttt tctctttcct cagcatcatt tgtcccagtc tggcactact actgccatga 300
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 tagtaggctt gccccagcat ggtggctcac acctgtaatc ccagcacttt gggaggccga 420
 ggtgggagga ttgcttgagc ccaggacttc aagactagcc tgggcaacat agtgaaaccc 480
 tgtctctacc aaaaaattca aaaaattagc caggcatggt aacatgcgcc tgtagtccca 540
 gctacttggg aggcggagggt gggaggatca ttggagcctg ggaggcagag gttgcagtga 600
 gctgagatca cgccattgca ttccagcctg ggcaatagag ccagaccctg tctcaaaaga 660
 aaaaaaaaaa agaatataa ggcttttagc atcatcattt tagaatca 708

<210> 110
 <211> 402
 <212> DNA
 <213> homo sapiens

<400> 110
 gggctctgag caaaactgaa ggggtggcagg gccaggcact ggaggccctg agaatatgct 60
 aaattcaaat tagtggatgc taaccttccg acctgtgccc tctgcttcag aacctcccat 120
 ggcaatgaca tttccagcgt tctgaaggc tcttcaacg acctcacatc tctttcccat 180
 ctgtaagtag cagtgtttct ycccaatgaa cattcaaac atgaaagcat gaaagtgtca 240
 gcgacaatgt catcactgtc agcatttttg cagatgtcct ttccttatgc atacagtata 300
 ttatacaact atgtatccac actatgcata ttgtcttgtt tccacacctc gaagccttca 360
 aaggaatcct caattatgta aacactgtaa atatttaata ag 402

243/289

<210> 111
 <211> 588
 <212> DNA
 <213> homo sapiens

<400> 111
 gcaaaaatga aggcccagaa aagtgacgta acttatccag cattccacgg ctaagagaga 60
 ctggtttctg atttcgcctc aggtctatca gattgaaaag tccaccccct tcttccgcaa 120
 accctctact ccttccatcc ttgctgctga gctgggcata gaacattcat gcacccagag 180
 caaagggggc agcagctact gctaggagca gtggggctct gagcaaaact gaagggtggc 240
 agggccaggc actggaggcc ctgagaatat gctaaattca aattagtgga tgctaacctt 300
 ccgacctgtg ccttctgctt cagaaccctc catggcaatg acatttccag cgttcctgaa 360
 ggctccttca acgacctcac atctctttcc catctgtaag tagcagtgtt tctccccaat 420
 gaacattcaa aacatgaaag catraaagtg tcagcgacaa tgtcatcact gtcagcattt 480
 tggcagatgt cctttcctta tgcatacagt atattataca actatgtatc cacactatgc 540
 atattgtctt gtttcccacc tcagaagcct tcaaaggaat cctcaatt 588

<210> 112
 <211> 624
 <212> DNA
 <213> homo sapiens

<400> 112
 tcccagtcac aactgggatg aaagtctage caagtggttt gaagctgctc cctagggttgc 60
 tgggtttcag aaccttctct gcagagtata tcctccagtg gaccttcaa cagggcaagg 120
 gaaccagata atcagatggc cagtgatcca ggaagctccc taaaggagst aggatggggg 180
 tgagttgaag agtgagtctt acttgcgtag gtgagagcca cgcctcagaa gtggaagggg 240
 ctgggatggg agttgaaact tccacaggat tggaagtaca ctctggagat attaactttg 300
 ccacagtgga gacgactact ccgctggccc catattggat acctccagtc tagccaaaagt 360
 ctgaaaatgc atttccagag agccaaggat atgaaggcta ctggccaagc tgggcagggg 420
 gccctgactt cctgttctgc ctccatgggc gctgggaacc aaccactcc actgtgactg 480
 cagtcttcgg tggctgtcgg agtgggtgaa ggcgggggtac aaggagcctg gcatcgcccg 540
 ctgcagtagc cctgagccca tggctgacag gctcctgctc accaccccaa cccaccgctt 600
 ccagtgcaaa ggtaggtgac gccc 624

<210> 113
 <211> 402
 <212> DNA
 <213> homo sapiens

<400> 113
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 atctgggcat ggagttggga aggggctggc gctggctgag ggagggccca gagcagaggg 120
 gaagggaggt atggcagtga gcgcactcag gacctgccat cagtactctg gttttgctgc 180
 ccagggccag tggacatcaa yattgtggcc aaatgcaatg cctgcctctc cagcccgtgc 240
 aagaataacg ggacatgcac ccaggaccct gtggagctgt accgctgtgc ctgcccctac 300
 agctacaagg tatgctggag gccctgcccc cccgtgttca tgcctcaggc tcctccttca 360
 gccctggccc tagagagggg caccatgccc tgcgtaccct cc 402

<210> 114

244/289

<211> 402
 <212> DNA
 <213> homo sapiens

<400> 114
 ggcagtgagc gcactcagga cctgccatca gtactctggt tttgctgccc agggccagtg 60
 gacatcaaca ttgtggccaa atgcaatgcc tgccctctcca gcccgtagaa gaataacggg 120
 acatgcaccc aggaccctgt ggagctgtac cgctgtgcct gccctacag ctacaaggta 180
 tgctggaggc cctgcccccc ygtgttcatg cctcaggctc ctccctcagc cctggcccta 240
 gagaggggca ccatgccctg cgtaccctcc cttctccaag ggacagcctg gatgagtcca 300
 tcgcacaggt caccactcca aagcagcatt tgccagtaac actgttctct gaactagcgg 360
 gagctgccag tcagagaggc ccccatatgg tcttgacaag ga 402

<210> 115
 <211> 402
 <212> DNA
 <213> homo sapiens

<400> 115
 tttcccaccc gtgtcttcct ctctgccatc ccaaccaccc tctctccctg acccctgact 60
 cccctgctct ccacccctca catcccaaag ctgctcctgc cctctgggct ttgaggggca 120
 gcggtgtgag atcaaccacg atgactgtga ggacaacgac tgcgaaaaca atgccacctg 180
 cgtggagcgg atcaacaact wcgtgtgtat ctgtccgcct aactacacag gtaaggatct 240
 catgactgta tgtatgggtg ggtggagggg tgtcgtctaga ataccatttt cttaacttcc 300
 tccaggggact ctcttcctct ctccctgagg acagagacta agaccccaag actgtgatat 360
 gccaagaggg gctcccaaaa ggctgtttg cttctccgtg tc 402

<210> 116
 <211> 541
 <212> DNA
 <213> homo sapiens

<400> 116
 gctgggggaa tgatgacacc ggccttggtg gtggacatta gcccagagc gaggcagcca 60
 gcatgggcca ggggagatag aacattgcct ggagatggg ttggatgaaa tgacctttta 120
 ggttcctaag ggtcttcctg ctcaggaccc caaggcctca tgtgtccaaa gtgctttctc 180
 agacctccat ctggaggaaa aactaattgt atttccacc cgtgtcttcc tctctgccat 240
 cccaaccac ctctctccct gaccctgac tccctgctc tccaccctc acatcccaaa 300
 gctgctcctg ccctctgggc tttgaggggc agcgggtgtga gatcaaccca gatgactgtg 360
 aggacaacga ctgcgaaaac aatgccacct gcgtggacgg gatcaacaac tacgtgtgta 420
 tctgyccgcc taactacaca ggtaaggatc tcatgactgt atgtatggtg ggggtggagg 480
 gtgtcgtctag aataccattt tcttaacttc ctccaggac tctcttctc tctccctgag 540
 g 541

<210> 117
 <211> 642
 <212> DNA
 <213> homo sapiens

<400> 117

245/289

```

tgctctctt tagttgatg agaagtacta tataggctct tgctaccaga ggttcttgaa 60
ccagcagcat cagcatcaca tgggcgtttg ttaggaatgc tagttcccag gccccacca 120
gactccctga atcagaagac acattttaac aagatccctg ggtgttttgt atgctcatta 180
aagtttgaga cttgctggta ttgagagggc tgtagcattt taaaagaaaa agaaggtcaa 240
tacatttgcc tcccgcctc cactgcttag tctgagagtg agaatagctt ccctaattct 300
taataaagat ctcaccagta gccttgaagt ccaggcttaa aatattggat tttatcttgt 360
aagtattggc cagctattat tgccttggag aaagtcatat agcttaagtt gytctgcaac 420
tacttttttag aattcaagag acacacagat ggcttcctgg gccaaagtta acacagtagc 480
agaagtatac atgggtgctgt attgagcaca tgcccctcaa aggcattctc aatgtgtttc 540
cttaaaagac tgggtgaaca tgtaagtttg tacttccagt gcagcaatag gttatgtatt 600
tcaaatttgc caatcaagta aacgtgaatt ggtcagatct ta 642

```

<210> 118

<211> 402

<212> DNA

<213> homo sapiens

<400> 118

```

aaatgggaaa tatgggactt agagaaggaa aaggtcttgc cccggtagt ggcagggctg 60
gaactagccc ctagaactag tgtcatttcc catctcactc tacctctctg ctcgaggttc 120
tttggcctga gtaactgtga ttgtctctc ttggccattc tctatctcc ctccccattc 180
tctcctgcct tccagtggac scttctgtga acacccccca cccatggctc tactgcagac 240
cagcccatgc gaccagtacg agtgccagaa cggggcccag tgcacgtgg tgcagcagga 300
gcccacctgc cgctgccac caggcttcgc cggccccaga tgcgagaagc tcatcactgt 360
caacttcgtg ggcaaagact cctacgtgga actggcctcc gc 402

```

<210> 119

<211> 713

<212> DNA

<213> homo sapiens

<400> 119

```

taactaaatc ttttcttcca ttaaaatctt atattaaact taagaattgt aaatacttag 60
aagcaaaacc gccctgcagt gttgaagcaa agatcccccc tccacacaca ctgttgtcaa 120
ggccccctgat aaatcatcca acaaacccaa tttgaaagcc attgggttaa accagtgggt 180
ctcaaagcgt ggtccccaag gcagcagcac cagcatcacc tacagacatg atagaaatac 240
acattttcag actctacccc agaactactg aatccaaaac cctaggggtt ggccccaaca 300
cacctgtgct tcagagatcc ttccaggtaa ttctaagtca caagtctagg aaacaccagt 360
ttccaaagga aaacttcctg cagaaagagc agtctgagtt gggccttgaa gaaagggag 420
aacttgtgag agcagagaga acaggtgggc aaggcatgct gggaggtcag caaagacaga 480
ygaggagcaa agaaaagggg gttgaccaga gcaagaggct cccagtggaa ggtggataaa 540
gaccaggcag gttaggacag ttgggcacag tggacaccag aagaaagagc tcaccctgg 600
ggtctcccta gagcctgggc cgcctaacat ctgtgtccct ggagccacag gtcctggcca 660
agtggagagg acagagagcc aaggaggcag ggccagggca gcctgtgaag cat 713

```

<210> 120

<211> 725

<212> DNA

<213> homo sapiens

246/289

<400> 120

```

aagaacaagc gtgttgagta aatagtggtc caggcagcat gcagatagag caggattgag 60
aaggtggctc gggaatggag tttgcttaac tctatgaaat aatagaaaag aatacaaata 120
atgatagcca aatgcaatac ctgaccctag actaaatctt ggactggaag gaaataaatg 180
ctgtaaagga cagtattggg tccaatgcag aactggaata cagataatag actagataac 240
agtgtggat ccattgttaa ttcaccaaag ttgacaactg cactgtgctt atataagaga 300
atatctctgt ccttaggaaa tgcacactga ggtatctaag gataaagggc tgtaatgtat 360
gtaacttacc tttaaatggg tcagaaatgt gtgtgtgtat acataaaatg cacagagaaa 420
wccataagca cattggagta atgggagaaa ctgggtaata agcatcttct gtactgtttt 480
tatttttgcg acttatgtaa gtttaaagtt atttccaaat aaaaagtaaa acaaaatgta 540
agcaatgcag gtcaagtcca cagcacaggg cccagccatg gaaggccctt agtgaactct 600
ccggctttct ccccttctct actggccagt gtggagacag tgaatgatgg gcagtttcac 660
agtgtggagc tgggtacgct aaaccagacc ctgaacctag tagtggacaa aggaactcca 720
aagag                                             725

```

<210> 121

<211> 404

<212> DNA

<213> homo sapiens

<400> 121

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gggtgacaga gtgagacctt gtcttttaaaa caacaacaaa acacaaaaaa gtagccatca 60
gttaggcaga ctctgggcct gaaatgcagc ccctgcactg atagttctca agggsttaag 120
tgtaaaaaaa gctacaaaaa ctgctcgttc aatcctaaga ttcccaagac tttaccaga 180
gtccacctgc agagactagc acggggccag aagaggggtgt tgttaatggg tggttcagat 240
gtagggaggc cagggaaagc tctgtgccga gggcagcccc agaagggaca ccacttatcc 300
ctggaggagg accgtgccct gtgccccacc tgctccaggt gcaccagaa cggaactggg 360
tgccctgctt ccaggccagt cccaggctct caactataga aggt 404

```

<210> 122

<211> 402

<212> DNA

<213> homo sapiens

<400> 122

```

accaatgccc tgacttctat gccctctgca gagaatccgt gcctgggaca agtagtccga 60
gaggtgatcc gccgccagaa aggttatgca tcatgtgcc aagcctccaa ggtgcccac 120
atggaatgtc gtgggggctg tgggccccag tgctgccagc ccaccgcag caagcggcgg 180
aaatacgtct tccagtgcac rgacggctcc tcgtttgtag aagaggtgga gagacactta 240
gagtgcggct gcctcgcgtg ttcctaagcc cctgcccgcc tgctgccac ctctcggact 300
ccagcttgat ggagttggga cagccatgtg ggaccccctg gtgattcagc atgaaggaaa 360
tgaagctgga gaggaaggta aagaagaaga gaatattaag ta 402

```

<210> 123

<211> 396

<212> DNA

<213> homo sapiens

<400> 123

```

aaaagtacaa gagcagacag cctccaattg ggtcagccca ttcattgggtt tgtccactct 60

```

247/289

```

ctttgtttcc tctcactttt cctttttctca ctacccttgc cctttctttc ttcttcatgg 120
tagttccttt tgccttttgt tctctccctc tctgtctttt tttttttttt ttaaaccct 180
ttgccttctc ccctcttttt tttttttttt ttggcatttt cccttcttct ctgagattgt 240
rgggaaatgt tggaggggac ttctgagggg gacagggccg ggtgcctggg gcagaatgca 300
gccacttggg ggaagtaata ccagatgtga cgctgggtgcc aacaatcagc ctgaaatgta 360
aacgtgagct gagctccagt aataaaccct ttacag 396

```

<210> 124

<211> 495

<212> DNA

<213> homo sapiens

<400> 124

```

tcaaaacaaa ttctattagg tgacccgaag gctgaaaggt tgactgtgtt taactggatt 60
attttacatt ttctcagttt gtgctttatt tatacgagc aggttttact caatccacct 120
grcttcttac cttttgtcca gcttgaaaaa tgaaatgagt ttgggctttg gcactatgtg 180
ttcataggc tcctaattctc tctttgtatg ttttgttggc caataatacg taaaactatg 240
ccccaggctt tcttgaagtg catgtaaata tctgcctctc tcttatctcc catggtagta 300
attcatccag gaaacttact tccaacaggt taggtattaa actctccctc acataaatcc 360
acattggatg tctctgatca aattataatt ttcaaagtat tccatcacta tgtccagtta 420
aatcgttctt aatatttttc catgactggg tgacttttta aaaaatcttg attgtgctac 480
agaagtgttt tccca 495

```

<210> 125

<211> 1612

<212> DNA

<213> homo sapiens

<400> 125

```

gtgtcacaaa tgtgctgtac agatgtttta ctgccagacc ctactgcccc ctaatttgct 60
ttgtgattcc tggctagtta cagtccctct aggcaatacc acctctttac ctataccaaa 120
gcacaaaaat aaggcacctt ttggggggta ggggaagggg ctccctccat acactgtctc 180
ctacttcttt gtccatcatc aaatccttct cactactctg ctccctggt cagtctgtgt 240
gactcccatt catcaagtga taaattcaat cattaattca atatgtccgt agtgagtgat 300
atattatact aagaactgtg cctgttgtat ccctagagat atagcaatgc acaaaacaca 360
gtcagttact gcgtctaagt gctcactaaa tgtagtgggt gaaatgaatg aaaagtgagc 420
acaaacttaa caatctgact cgggtgatgg taaaatcgga ggactcacca ggtgctatgg 480
gaacatgaag tgtaggccac aaactcttct taattaggca gagaatgctt cctgtaggat 540
ggaagagctt gctgtggttt ggctcctggg tctgcagttt acaagctgtt tgactttggg 600
caagtcactg tacacctctg tgcatttaaa atgtgataat gatgtaaaaa cttagtacag 660
cacctatcac atagtaaata ctcatataca catattcatt cactccttct ttcagtaaaa 720
atcatctatt gaatacctac cgtgtgtcag gcaatgccct ggaaagtgtg gatgggtgcac 780
ccaggctctg aaataactaat atttcagga aataaactac atcatctcag ttcttttttt 840
tttttttttt cctgcatgga ctacacttgg aagaagtctt tgaagtaaca atagtagaag 900
ttcttttttt ctgtctgttg aagcagcaac tcagaggatt ttccctagggtg tgaggggaaag 960
cccgggcagt gaggaagtag caagtgaagc tgtgcccaag ttgcacgttt aggggttttca 1020
tctcaccagc agctccagcc tacaggagtc acccctccca acccccatcc ctgtctcaaa 1080
ttaaggtctg cttcacatag cagggcacia caggaatgca ttgtcgtctt ctgttgctgt 1140
cacaagtggg ctgaaaacct ttaagctgtg caatccccca ctgctgctga atacttgaag 1200
ttcttctatg aaaccttagc atgacccgc atctctggtg ctgcttcac tcgcagaaac 1260

```

248/289

```

ctgtgaacca tggaggagtt cttctcatcc cgtgatggac agaaggctgc ttcttcagag 1320
agagaagtat gagcagtggg aagctaagga agcttacact gttgttgatg atcaaaaaat 1380
gcagcaataa gcactatcct tctccaggcc cagaaacaga gctggggtct acaggccagt 1440
tgaattaaaa aggggaagcc ccactgttag agacattctc tttctacaac cctgcccttt 1500
tcttttttcc ttcttttttt cttgagatat aggtaacata agattcacca tcttaaaata 1560
tatcattcag tgcttttttag tctatgcctt ttttggggga ccatcaccac tg 1612

```

<210> 126

<211> 577

<212> DNA

<213> homo sapiens

<400> 126

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ttgcatgacc agtgaggact agtgatgtgt ggtagtccat cgttgccttg caaggaggga 60
ggcgatgctt ccatggattg tgggtctgaa cttacttcag ggaaattccc tgagggtggg 120
tttgagatag gtttattcac acgagactgt cagtgggtctc agaaggcaac ggtttggacc 180
gaacayggca acctcatcac cttgctgggt gaagcagctc ctgccttttt cccacttcct 240
agcgctgcca gtctaggaac cctgggtctg ggggtttatg attttgtggg aaaagggaaga 300
aatgtgttga attttgcttt attctcttca gaggtccagg gtaaaatgag gagaggggag 360
agttggagat acttctatct attcagtggg agaatttggg agcccaggag ctggagttgc 420
aggtgagggg ggagactgtg attcatgtat tgtagatgtc aggcaagtgc taattaaatt 480
atcgacagtg aacctgaaat catgctggca gtgactcagt tcatggggtg tactgaattg 540
cctaaggtac acctttctga atgaagcgac acagtcc 577

```

<210> 127

<211> 401

<212> DNA

<213> homo sapiens

<400> 127

```

tgagcgggtgc tgactgctgg agagagagca aggtccatat ggcttcctta tggggggacgt 60
ggaagtcacc agccctgctg cagccaacat ggagacatag tcatggctct caccctgcag 120
gagcagctct ctaggctttg gggtagcctg gggccagatt ctgttgccct gagcttcaga 180
aacaggcgaa ggaaagaaaag ktggtgtgta ggaaaggcct gcagatatta ccagcttgctc 240
tgtggaagcc acagacatct cagggtgaaa acagagacca aaagtacctc ttgcaaaaata 300
gtcattaggg tgtgaacata ggaagacgag aagatatagt ggaaataata gtcaataaca 360
caaccacgaa gcagcaacta ttatttggtg aacgcttaca a 401

```

<210> 128

<211> 401

<212> DNA

<213> homo sapiens

<400> 128

```

taacccccgc tcccctgccg tgtccaagtc caattccaag tgtcttataa ccacagtttg 60
atgctgctgg ctccctcccc agctccacct ttgcctgtga gtatatgtat ctttcaaaag 120
tcatctctta tttccagtaa ctccaaatac aagccgcctt ttagtgacaa gcagatgagc 180
gtgagctgca gtcgcctgga ktgtgcaatg ctgtcaccag agagaactta gtaattacat 240
ttgccaggct caccgtccat gttggctggc aacatgaagg gatcagagaa ttctttgaaa 300
caatatccaa gttcttggtt aaaagagata caggctgggc gcggtggctc acacctgtaa 360

```

tcccaacact ttgggaggcc gagacaggtg gatcacttga g 401

<210> 129

<211> 526

<212> DNA

<213> homo sapiens

<400> 129

tttccctacg	tatgtacttt	attggtgttg	cttcaagaaa	aatacatgca	aaaatcctgg	60
catcaacaga	tcccctcttt	cctccccttc	ttaccctagt	cacgattact	tagactttct	120
tgtagaataa	gaaaagatga	ctaaaatgtc	aaacccmacc	atcatcccaa	aatgtctggg	180
ccaaaattag	aacaaggaga	agacaatcaa	tcactcccag	gttacgaatc	atgacccagc	240
cataagcaga	gtctctcggg	gatgtattat	gtttatatct	gactctcctt	cttgacagtt	300
ggccttctgt	gatcagtttc	ctgcattgta	aaactactcc	agatgtgaga	acagctcaat	360
agcagagctc	tcagcctaata	taattcaatc	acaggatggg	gattaagagg	tcagcgggtga	420
catttccaga	gtgcaccttc	tgtcttccca	gcagttagct	tgtcctaagg	ctccaaagcc	480
ctcaggtggc	tctggagcca	caggagccct	tgggggcctt	gtccca		526

<210> 130

<211> 587

<212> DNA

<213> homo sapiens

<400> 130

actggtagaa	acacaaagta	gggctcccag	ggagttggct	ttgtgatggg	ccagctgaga	60
aatagtgaga	gctggaacta	aggcagtggt	gatggttatc	tgaataatta	ataattactg	120
tctactcact	cccgaaaaac	tgcagtcctt	ctaattgaag	atatatgttc	tctcttagag	180
aaatgagccc	cttctcagga	cctcataccc	acacctttcc	ccacagttgg	atagacagac	240
gcatccgtcc	tgctctggga	accatagctt	atagtttttt	ggctatcctg	aattccaagt	300
caccgctccc	aagagaaaag	cagtgttatc	actgagaacc	ctgttggatg	aaaacatgcc	360
ctcagtagat	cactttctga	gtagtgcaca	cctttcccca	cagttggata	gataracaca	420
tccatcctgc	tctgggaacc	atagcttgta	gttttttggc	tatcctgaat	tccgaggcac	480
cgctcccaag	agaaaagcag	tgttatcact	gagaaccctg	tggatgaaaa	catgccttcc	540
gtagatcact	ttctgagtgg	tgagatgctg	aaacaaacag	tggagat		587

<210> 131

<211> 621

<212> DNA

<213> homo sapiens

<400> 131

actggattaa	gcagctaacc	tgcattatth	tgcttaactc	ggtcagtgtt	tcatacagca	60
gatagtagcg	ctattctcat	ttgatagacg	cagaaagtga	gcctcagaga	ggttagataa	120
gtggcccagg	ctcctccgtg	agtaggtaat	ggccgggggt	catcccagggt	ctgactgaag	180
agtccatatt	ctttacatct	ttgcctcact	gcctcttcat	gtaagctctg	gacctgccat	240
cataagacaa	atgggaagag	gtgtcctacc	ttcctaaagg	cattttccaa	agtgattttct	300
gaagatatct	gatatgggca	actttccaga	attagttcag	ttgttaaagg	tttcacggat	360
gaataaatgg	tgtgggggat	gggggttgag	aagaggtcag	aaggagagac	agcgtggaga	420
atgattttcca	aggctggatc	ttttctttat	ttgattctag	taaattttta	cgaggccctt	480
aataaaatcc	cagtgcctag	cagagcctcc	acattttacaa	gttgccagac	ctggggcrga	540

250/289

```

agaaggggaag ttggaatcct ggcgctcagc ttagtcctgc tgacctttca cagttcaggc 600
gagccaggct tgtaagattg a 621

```

```

<210> 132
<211> 401
<212> DNA
<213> homo sapiens

```

```

<400> 132
gaggggtggt tcatgagaat gaccatatcg aagagtcctt gagaacatag actttggaat 60
tatgcagatc taggttataa tcctggccct accatgtact aggtgtgtaa atttggccat 120
ttaatacctc tctaacttta gcctctgtat tgctaaatgg gaaaaatata gtatgttcca 180
tgtagtgagt agttaggaga raggaagag atttcatgat aaattaccaa ggaatggggg 240
ctgggcttat aagaaagggg ctggcatcaa tcctgtgaac aaaacactag gattagaccc 300
atcacctcta aagcaggaag aaggaagtta gctgggatat ggggtggtggg ccagtgattg 360
cagaggccca tcaagtaaac caagactata atagggaaaa t 401

```

```

<210> 133
<211> 644
<212> DNA
<213> homo sapiens

```

```

<400> 133
attagcctgt ttctccctca gacctcaacc ttttggtgag gggaagaaac acttgtggta 60
gaaggaaaca taattaatgg aaggatcatg tgcattggact atcatcttat cagtgatgat 120
aataggcctg gttgcctaga tctttccagt cagccgccat gttctgtcag catagctttc 180
ataatgtcct cttcctgtca ttaacaatgt ctttgggttt ctgggttttc tgcctcaaa 240
ttcatcctga acaccataac taggtcgttc atcctggaga gatattcttg tactttgcct 300
cccaatgttt aaaggctccc tattgccaat gatgaagtcc taacaytgta tcctgacatc 360
tgcattcccta cacagtatga tctccgctca tgtttatgat cttctgtccc actcttcttc 420
cgtgggaacc agaccattga gctcttgggc cttcagacac ctgtctgctc acctctctgc 480
tcagagtctt ttgcccggac tgccctgcag taatgatttt tttgccctgc aataattatt 540
gcaataataa atacaataat aaatgcaaaa ataataaaaa taatccaaac aataattatt 600
gccctgcaat aattatctct ccatatcctc atctctcaca gaga 644

```

```

<210> 134
<211> 401
<212> DNA
<213> homo sapiens

```

```

<400> 134
gctcttatac agccactcc agcatagcta aaatttaggt aaacactttc ctactctga 60
gttttagaag caagtgtttc ttaacaaaat gccttcaact tcacgatatt ttgaatata 120
gcttttattc caggatttag agacacagac accacagcac caaacacac cagcagagaa 180
agctccaggc cctactcag ycctgatgca gacactttat ttccctacgt atgtacttta 240
ttgttggtgc ttcaagaaaa atacatgcaa aaatcctggc atcaacagat cccctctttc 300
ctccccttct taccctagtc acgattactt agactttctt gtagaataag aaaagatgac 360
taaaatgtca aaccaacca tcatcccaa atgtctggtc c 401

```

```

<210> 135

```

251/289

<211> 401
 <212> DNA
 <213> homo sapiens

<400> 135
 caaaatacga gaaaaaatca ccaaagctca tgaccaggag aagatgataa ggctggaggc 60
 ttggcccaag gtggaatgaa cgcctgtgct cagtttccaa ggagaaagct gacctgccaa 120
 tccatttggt gacccaaagt tcatcaatgc attcaatggt tctttgactt aagattaaat 180
 aggacccctg tgtgaaattg sctgttagtt tttaaagcct tttcattttg acaggtgaaa 240
 acctcatcag aattacccta tgcaaagatg tcaggaaaaa tatacaagag gaaattggaa 300
 aatgtgattg agctgagcgt acgcttcctc tgccctggag ttctgcgtgg gcttatttat 360
 ttcttgcccc tttgctcttc aggcattttc catcactgag g 401

<210> 136
 <211> 568
 <212> DNA
 <213> homo sapiens

<400> 136
 gcttgtgatg aggggtctgta ccaaaggcat gaaaggggag gagagatgag ggaactcaat 60
 ggacattttct gtcaagtga ccttcctta gtatctccaa tgcaaagtga gtcatttttga 120
 tgtggccatc ttgctataat cattccagt ccaaaattgt atcaacatgc aaaacactct 180
 ttaaaaaaat caccagtatt gagtctaacc ctcatcatcc ctgatgcttc accatctccg 240
 acatcctcct caatctttgt ctgagttctg agcttcccca tccctgatgc tactgtacat 300
 actgcatccc ctccctgtct ccctgtagca tgcaaaggca tcccatcttg ctaggcacatca 360
 caacagatac tgataattta ctaacttcat ttctaggtca catcaaaatg accctgtgtc 420
 aaagcagtggt gccaaatatc acccatcctt atgttgaact tcaaaaaagc aaaagtcctt 480
 cagtttttgc agacaaacct gcaaaagaga gagmgctggg gagacagtag taccctgtag 540
 aatcttttagc caaatgcagc tttgctta 568

<210> 137
 <211> 458
 <212> DNA
 <213> homo sapiens

<400> 137
 tacacacacg tgtgtgattt ggggtgtggg tgtcctcggt aaaagggatg acgttctttt 60
 tatagaaaga cacttggtca tttggctcca tagaaaggga agttcttcct ggagtaattc 120
 gtgactgaat aattaactct aaggcatgaa accccatgtg tgagaagaag cctgctttcc 180
 aaaaaaaatc aagccrgggc ccagggatac ccattgggaa ggcccaggca gcttgccctgg 240
 ggtcagagtt tctctttgct ctgggcatcc tttctgacag gttttcccca aatggggaaa 300
 aagcacttgt caagtatat ttaaaaaatt tttaaaagaa cattttgaat agcccctgct 360
 tcaggctccc tgggggttcc ctacttatat ttttaaaagc tcaggccttg gcaggctctca 420
 gctttttagt tggcatgaaa cggactggaa aatgcact 458

<210> 138
 <211> 401
 <212> DNA
 <213> homo sapiens

<400> 138

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ttcttggggc caaggggatt ccatgttcac cattcttctt aggctcttct agctttggac 60
tggatccctc attctgctgg ctctgctgca ggcttgaacc tacctgtttg tatagaccac 120
acactctact ctgttttttc acttaccctc agcattagca gtgccagaga gaggcttggc 180
aggggtgatga gataagtgtg sgtgaagcag aacaaggcgt tccaagctaa aggccagtcc 240
tctctctgac atctgctccc caggaaagaa gctgctttct ggctcatggg cagtctgctt 300
tcgttcagat aagcccagca agtgggcctg gacctgcctc ttccagctgg cagatgccct 360
ccttgccctc ggggcacacc ttagatgtta tcttttctt g 401

```

<210> 139

<211> 576

<212> DNA

<213> homo sapiens

<400> 139

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agataacctgt gggctgggag tctggccaac acttgtcaaa agcttttaaag agaaatcatt 60
ctgagatcca aacaatggat tcaccaacac actttcagaa cttacartag tggttgccag 120
ttcctggggt ctgacccctg ctgcttgcca tcttgcaagt catttatatt ttgttcatat 180
gtaaaatggg gtggttagcc tatgtaaccc tatacgtctt taaaaaaca aaagagggtat 240
ttgtgcccct tggccttgac tgttctcaca ggggccacga gagcttctga aggacacggt 300
ggggctgtga ggaaaggccg ttggcttttag gggagggttg ccatttctgc tgaggaggct 360
agctgtaggg aaaatgaggg cctctgaaaa gtgatttggg gagccctcat ggagtaaagg 420
gtgctgctga ctcttgccgc tgcaggctgg tgctctgtgg ctgagtcaga tggagggtcaa 480
agacaccaac gttggaccaa ctttgaaagg tggcaagatg gggctgccta gcaacaccca 540
tgtcatttct gcctgtgggt tgcacgagat ccaccc 576

```

<210> 140

<211> 401

<212> DNA

<213> homo sapiens

<400> 140

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gactcccaac ccgttgtgtc agaatgggac cttgggaagg aaagctttct ccgaggggaat 60
tgaattagcc ggaaatatat aagatcccat ttccctccc attggcttgt atttactggg 120
cttgatgggg agtccgagga tggtagctag aggccttgca atggaaattc taaaacaatt 180
gaccagactt tcgaatgtgt sgttatgttt agatgtcttg gggtgctttc ccctgacttt 240
gaaaaggagc agacaaaaca tgttgatttg cgaacatcct tccagaacat aaatcactgg 300
ggtgagtgtg ggggtggagt ctgtcatagc tctactgggag atgggcccac tgcctgtctt 360
tcatgggtct ccctttgcac tctgccctct gcccctgga c 401

```

<210> 141

<211> 321

<212> DNA

<213> homo sapiens

<400> 141

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gactgtagga aggggctgac ccgtgcttag agtgaagggc ccaggaggat gtgagggatt 60
tgggttctgt tgacctacgg ttagggagaa atgcttgaag agatggggag gagctccac 120
aggaaattct catgtttgtg ccagtctttg ttgccagaaa tctcaacaga acatgaaagt 180
tcagatcccc agagtggaca rgctaggaaa ttctcaggta gagttccaag agagatgtgt 240

```


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gtaccttcct tcaggaggag taaggggaaa cgggggcaaa ctggggcaaa ttatggagaa 300
gttccttgat tgctggcata t 321

<210> 142
<211> 666
<212> DNA
<213> homo sapiens

<400> 142
ctgcagacac cgagggtgttg acgggtggttg gaacagtctt gctttgtctg agtaggaatg 60
cagcctccaa aagctgactg ttgataggga agacttcagt gtattgtcct tttgttaagg 120
aaaatatgtg gatgtgcttg gcaaattggt ccctatctga ctgcagaca cagggttgat 180
tggtcaaac actagctgct gacgcgaggt taccaaaaac tgcaacttat tgtgcacact 240
gtcattactt taaccaggtc ttggtgaagc tggttaagcca aactgactgt cttcaacttt 300
gtcatcctat ctgattctta gagctgrttt ttagatgatt ccttctgttg atgttcctga 360
ggaaagcatt ctttttacca tgagatgtag tccaaagatg gcttgggtctg agattgcttt 420
gaagggttaat ttggaaaagc ctcgatgagc ttataacatt caagaagaac gttctgctga 480
tcatgcttat tttctttgat ccttggtctc agtttgctac atatttcaaa ctaagtttta 540
gaattcctga atgtccacac cacccaaggt aataactaac atttatagtg ctttttaaaa 600
gtaccaagca ttgtgctagc ctttatattc attacaaatt tacattcatc acaaatttaa 660
ttccct 666

<210> 143
<211> 400
<212> DNA
<213> homo sapiens

<400> 143
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gtaattataa ggtgaagaca aaaagcccat ggtaaacaat aatcaggctg gatgtaaaag 120
gtgctccctg gcagattaag gaagggtggga gggaaggagc atgcatcgtc ccaggcaggc 180
aacattttcc gtcttgctay ttcttttctc aattcgtaac tgctgttgca gggtagggct 240
taggacaaaag cccgtctttt tctgcccagg ttgcaggact ttgctgtctg cgggtcttg 300
gttttgaggt cttggccatt gggcattctc ctgccataga agtcagcccg aaggcctgga 360
ctgagctcag tggcccaggg ccttgggtgg tggacatggc 400

<210> 144
<211> 401
<212> DNA
<213> homo sapiens

<400> 144
gctcttcac tagcagggtta ggagccggca cctagagatt ggaggcaact aggatgctgc 60
tgttgcttac aacacctctg tgcgagttag aaaaagggtga tcccccccc actctgggct 120
gacctgctc tgggatcaca gggcttgga tgaatcctaa gtgaatgcct ctttaagcagg 180
ctccctagtg ctttggtgga rggagaggag catagagctg agtgggtccc agtctgttgt 240
cccagcaggg tctctggcca ctggccatat gccagcaatc aaggaacttc tccataattt 300
gccccaatTTT gccccattt ccccttggtc ctctgaagg atgcatgcag ctgagacttc 360
agccatcagc catcagagca tccctgacag tttgaggcct t 401

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<210> 145
 <211> 552
 <212> DNA
 <213> homo sapiens

<400> 145
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 gagggggaag aggggaaacc gcagatttga agccacacta ccatatccca cctccaccac 120
 ataggtccat aatttttgtt ttctaagcct cagtattcac tgcgtaaatg gatatagcaa 180
 cagccagagt tgtggagaca gtcaaggata atgggtgtatt gtaagtatca gtctattctc 240
 tgactcatat taagggtctca tctggccctt cttcattttg ttccttcttc ccatgactaa 300
 gacacagacc caagcttttc atcattgccc tcattgttca ttgtctatgg tattcctcag 360
 agctctgcag gaagtgggat ccacagaccc accttctgcc tttgaagtat ttgccatcta 420
 aatgaacat acattttatgg aacacacagt caggagccaa gaacagccaa acagttgtga 480
 aaagagcaaa gggatattttc atcatatgca tgtcaaaggg agttgcattt tagaggaaga 540
 tttttttttt aa 552

<210> 146
 <211> 577
 <212> DNA
 <213> homo sapiens

<400> 146
 ttgcatgacc agtgaggact agtgatgtgt ggtagtccat cgttgccttg caaggagggga 60
 ggcgatgctt ccatggattg tgggtctgaa cttacttcag gkaaattccc tgaggtgggg 120
 tttgagatag gtttattcac acgagactgt cagtgggtctc agaaggcaac ggtttggacc 180
 gaacacggca acctcatcac cttgctgggt gaagcagctc ctgccttttt cccacttcct 240
 agcgtgcca gtctaggaac cctgggtctg ggggtttatg attttgtggg aaaaggaaga 300
 aatgtgttga attttgcctt attctcttca gaggtccagg gtaaaatgag gagaggggag 360
 agttggagat acttctatatt attcagtggg agaatttgga agcccaggag ctggagttgc 420
 aggtgagggg ggagactgtg attcatgtat tgtagatgtc aggcaagtgc taattaaatt 480
 atcgacagtg aacctgaaat catgctggca gtgactcagt tcatggggtg tactgaattg 540
 cctaaggtac acctttctga atgaagcgac acagtcc 577

<210> 147
 <211> 489
 <212> DNA
 <213> homo sapiens

<400> 147
 atctacggaa ggcattgttt catccacagg gttctcagtg ataactactgc ttttctcttg 60
 ggagcgggtgc ctccgaattc aggatagcca aaaaactaca agctatgggt cccagagcag 120
 gatggatgtg tctatctatc caactgtggg gaaaggtgtg cactactcag aaagtgatct 180
 actgagggca tgttttcatc caacagggtt ctcagtata acactgcttt tctcttggga 240
 gcggtgactt ggaattcagg atagccaaaa aactataagc tatggttccc agagcaggac 300
 ggatgcgtct gtctatccaa ctgtggggaa aggtgtgggt atgaggtcct gagaaggggc 360
 tcatttctct aagagagaa atatatcttc aattagaggg actgcagttt ttcggragtg 420
 agtagacagt aattattaat tattcagata accatcacca ctgccttagt tccagctctc 480
 actatttct 489

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<210> 148
 <211> 409
 <212> DNA
 <213> homo sapiens

<400> 148
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 tgcaaggatg agtgatggga gctttgcage ccattccctg cagggtgcaac ccttgccccg 120
 caggtaatta ccaggattag tgaatcaacc aggtctctct ctgtttgcag cctcctcaat 180
 gccaaacaaga tcaactgcct gcrpgtgaac acgtttcagg acctgcagaa cctcaacttg 240
 ctctccctgt atgacaacaa gctgcagacc atcagcaagg ggctcttcgc ccctctgcag 300
 tccatccaga cactgtgagt acactgcctc ggggtgccagt ggggtgcccc gcagcaggag 360
 accccaaatg cccatcatga aaaacaccca aatgagggca gcacgagca 409

<210> 149
 <211> 753
 <212> DNA
 <213> homo sapiens

<400> 149
 actccagaac catatccaga aaggtctctt ctaaaccatcc ctccctgatt tgggtcgtgc 60
 ttattagcga aagagaatga gcttgcttcc tgagtcttcc tatactttgc cctgaccac 120
 acttccattc agacctggtc tctgaaaaat tactagcccc aattataatg aacagtttcc 180
 ccatgagaag taatttaatt ttgcaaatg ttgtccaagt cataaggggt ggaggtgtct 240
 ggagactttg ggagcrgcag ttgttctcta atcctgtggc cctgtgggga tactgtgtac 300
 atcagggtag gaatttcttc aagctgaacc aatgtctcct ctttctgcct ttttccttat 360
 tttgtctctt tcttgcatca ctgctattct tccttaaaga caggcaagggt gttggtggat 420
 tccaggctgt taccaccccg cttctggagg atgtggtgcg tgtgacagct tgggcaaggc 480
 acagagccca ggctgtgtgt gtcacactcc gttcccaccg acaaacactg ctgctcgcct 540
 ccctgtccaa atctgatacc acgtatgttc tcccgatcct gtgctgttgc tctggaaacc 600
 aaggaagcag caggatctgg agtaggttca tggccgagtc aaccttaaaa gtctcccaga 660
 cgtttcagca acttccggca ggaaaaatgt acctgcaccc ctgcccagtg agaagttttt 720
 gactgatagc tctctccccg tggaaaagtt gcc 753

<210> 150
 <211> 930
 <212> DNA
 <213> homo sapiens

<400> 150
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 gtccattcaa acatgggagc ttggctccct acctgtccca caccctgggt catccaaatg 120
 tgacaagtgt tcctcctggg aagtggctgt aggacaggga tgtataataa aattgtgttg 180
 ctgtaatttc caccctckac cccaccccc ccgtctatta aagcttgtct gtgatcacgt 240
 accaagtgtc gttgttctga gctgcccgcg aaaggggagg agggctccag gggcaggagc 300
 aggcaagatg ccagatgaca tcagctcttc caaggctggg ttcagccgag gttgagtttt 360
 atggcccttc ttcaaactct ctgggatctc ttctgtctga actcaccaca aagagaagaa 420
 gcaacagcct attgcagtcg gtcctctatt actaagtatt tctggcagtg acaaatatgc 480
 actgagattg aaattgactt ttaaagctct ggaaaagtta aaaatacttt ggggtagtta 540
 tgagcattag gcataacaaa tggctctgag aaacctgag tagtttcggg aatgaaatat 600

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gaagtgatgg agatggcatt tcgggctggc tctgactggg gaacgaactt tttcggttat 660
gtacatacgc cgttattaac atttctggct cccactcgta taaaatatca cattccgacc 720
cccttggtat tacaaaccag ggcaataaca aaaacagcag ggggaaaaat gctggaaaga 780
acacattagt ccatcgaatc taattgcaaa atcatttcat taaaatgggt cagcggctcc 840
attgcagagg tccaccagtt ataatctaac tatactactg agagcgattc ctgctaacta 900
caggctgctc tcacttgatg taaaatgaaa 930

```

<210> 151

<211> 402

<212> DNA

<213> homo sapiens

<400> 151

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ctcccaggct ccgaggatta ccgcagcagg ttcagcagcg agtgcttcat ggacctcgctg 60
tgccccgaga agtgtcgctg tgagggcacg attgtggact gctccaacca gaagctgggtc 120
cgcaccccaa gccacctccc tgaatatgtc accgacctgt aagtccaacc tcggcggtgaa 180
ctccctactc ctcccacac rccagtcacc cggagccagc gtgggcaggg tctcctggcg 240
gtgaccctt cctggctcag tcatgtgggtg tttgttggct gtctttcaca tactgggtctg 300
aaggtagata ccagggcatc tcctgtggac agcttgcttg caaataaaga cagttcattc 360
cttcattcta cacatatttt ctgaacacct actgtgagcc gg 402

```

<210> 152

<211> 573

<212> DNA

<213> homo sapiens

<400> 152

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actactgtga gtactggttg agtatccctt atctgaaatg catgggatca ggagtgtttc 60
agattccaga ttttttttga ttttggaatg tttacatgta cacaatgaga tgtcatgagg 120
ctgggatgca agtctaaaca cgaaattcac ttgtgtttca tgtacaccat atacacagcc 180
tgaaggtagc tatgtgatat ttttaataat tttatgcatg aaacaaagtt caagtacatt 240
gaaccttcag aaagcaaagg tgtcagggtg ggaattttct acttggtggca tcatatcagc 300
actcagaaag tttcggacat tctggttagg grtgcttact tataatgaga gtggactgta 360
ccacctcggt tttttctcat taccatgct cccacccatc agttccctgt agacaaatat 420
gacagaggcc ttctaggccc tgggcagcat ctggatctca ctggtgctac tcagatcgct 480
ttctccctc cgctccctgcc tgcagccacc accttggtca tggctccagc gaatgctgtg 540
taaccgggtg cagtggagag cacgttgggg ggc 573

```

<210> 153

<211> 821

<212> DNA

<213> homo sapiens

<400> 153

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ctcctcttaa atcagtgcta gtgagatctc taataagaca gaaaatagtt tgagagtcac 60
tttttaactc tgtcagtcac ccagagcatt gaaaagacaa ttacacagaa aaaacttcaa 120
atcccatcca gcctgttttt ttaaattgat acataacaat tatacatatt tatgggacac 180
gtgatatttt gatacatgca tgcaatgtac agtgatcaaa caggatattt aggatatccg 240
tcacttctaa catctatcat ttctttgtgt tggaggtatt tcaaactctt tcttctagct 300
attttgaaat acatattggt gttaactata gtcaccctac tgtgactgtc accctatcta 360

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257/289

```

aactagaac ttattccttt tagtccccc attaaccaac ctctcttcat ctccctcaaa 420
ccttcccagc ctctggtaac catccttcta ctgtctccct ccatgagatc aactttttta 480
gtccccacat atgagtagga gcgtatgata tttgccttgc tgtgcctggc tcatttctact 540
taacacagtg acctccagtg ccattcatgt tgtgtcaaat gacaggtttt cattcttttt 600
atggccaaat agtcttccat tgtgtatata tacaccacat tttcttgatc cattcatcca 660
ctgaccatac agtctgtttc acaaaggtag cttcacctgt atagggccag ggtccctgct 720
ccctgggcca gatgctgaag accaargttc agggagcccc agactgagct ccttccacca 780
tccagtcttc agtctcaggg gccccagaga gtccccagca g 821

```

<210> 154

<211> 663

<212> DNA

<213> homo sapiens

<400> 154

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ggagtcagag tcatcagaca ttctggagcc ttggatggga aagaatttag catgctgaac 60
acctccagca tgcacactca cacacacaca ccacacacac acccaacata gtcacccact 120
ctcgtgtata cagctatata gatattatac agaaacttgc tgaaggaggc acacaaacag 180
acatttacc cacaacataa gcataaggac ctttataaaa atgatatatg cagacacgtg 240
caacatgcac ataaacatat atacaaacag gcacagacac acaagcacac acatacatac 300
aagctgatgt ctacaaccac gtcttgattc tctcttctct tcccagaaat atgtgtgcac 360
accctagcag ccacacaata tgcgtgtgta tacacacata tgcattgacat gtgcttccaa 420
gaaagcatgc acaaacaata atgtacatac acattttacac acagccccag tggggctcca 480
gtccctgcta tcacaggaca aacctgatca acatggctgg actgagctta gaattggcaa 540
aagcatctca cctatacaca cacacacacc accgtggcac catttgggac agaaaagatc 600
atgcctgtgc tctctcatcc ccacccctct acctgtaaga tgctgaggat gtaacttgat 660
cgg 663

```

<210> 155

<211> 734

<212> DNA

<213> homo sapiens

<400> 155

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ctctcacttt ctgctatcca actgaatctc attctttttt gttttgagat ggcgtttcac 60
tcttgtggcc catgctggag tgcaaagacg cgatcttggc tcaactgcaac cctcgcctcc 120
gggttcaagc gattatcctg cctcaacctc cccaagtagc tgggattata ggcatgtgcc 180
accacacca gctaattttg tatttttagt agagacgggg tttcatcatg ttagtcagcc 240
tggtctcgaa ctcccgacct caaggtatcc acccctctgc gcctttcaaa gtgctgggat 300
tacaggctga atctcgttct ttaaaattca ttgctcatct ctccacctct aggaagccct 360
ccctgactat gctggtctta tttattagaa agacttcttc tagctctagc tccccagca 420
aactattatt gagcatcagc catactccaa ctccgagacy ggtgctttta ctgccttccc 480
caccatgcta tgagctactt gtgagcgggg aattgtattt ttatttttta ttagcagggt 540
ttagtacagc gctaaaatat tttttaatgg aaaaaatgca tgaatgggaa gttgtgctgt 600
aagagcagat gtcaatttta tggaattcat tacctcagag gtatttgagg cgaggatgt 660
gaacatcagc ttcccaaagt tctagatgtg cgtttcccaa agcgattcat ttaaatgggt 720
gttcagcaac aaaa 734

```

<210> 156

<211> 402

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<212> DNA

<213> homo sapiens

<400> 156

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aggaaaagatc atccttttccc tcttttctcca aggagagtta gacccttgga caggtgctcc 60
atgtactagg acctgagttc tctgactgct gcagtgtttt gtctggctctg ccacaaccag 120
accgtgcacc tgtgacaaaa aagacctccc tgtccttaag gccagagAAC acagtagccc 180
tcagtgacca cttgttgaca sgtggatggt taattcactc ttctctgctc tgtttcccag 240
acgcctagaa cagaactcca tcaaagccat ccctgcagga gccttcaccc agtacaagaa 300
actgaagcga atgtgagttt cccctgtgga gaaatgggccc caaatgtttt caatttccag 360
ggttgtttgc aatgtgtagt gggcaacctg tccaggtgac gg 402

```

<210> 157

<211> 402

<212> DNA

<213> homo sapiens

<400> 157

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ttccacaatg aaagcatata tcaaaacatt gtgttgcaca ccaaatatgt atacattttt 60
aaaagactag ttgagtacag tagtgaaaaa ggaggaaaga gtagaacaag gagtttgatc 120
tgtaactgac tgtgaacaat ccattgagag aactcactac ctttgaacca gcctaaatat 180
gcagttttta taataataaa raaaaagaca aagtgaccaa ggtcaattcc cagctaaact 240
gtctatcact tctccaattc ccactctcca gcacctccaa accgtggggc atctcacctc 300
atactgtagg gagagatggg tccagaagtc tagttgtgga ctgaaaacca gtttgccctc 360
ccagagctaa agcagagggg ttccgtgctg gccacatagc tt 402

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<210> 158

<211> 402

<212> DNA

<213> homo sapiens

<400> 158

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acagatcctt cgtgtttgtc tggaatgctt tgcataggca gccatgctga gggcaagtga 60
gattaggata atccagagta tttgcttggt aagaccctta aacaaaaccg gagcgcgga 120
gaaaagcccg gtgtaagctg acgagtttgt gagtgcaatc tgcggatttg tcggaggtga 180
tttcgccagc taaagggata ractagacag ctgtgccgaa gagccttaac ctgtgaaata 240
tcgttcaaag tacaggcttt ggaggcaggg aggggaggaa gtagaggcct cagcaaaggt 300
tgtggcatgg ttcttttgaa atctattaga agaaggaagg aaacaggctc agagagattc 360
ccactgcatg tgcttaagag gctggagtgt ctggcttcgc tg 402

```

<210> 159

<211> 402

<212> DNA

<213> homo sapiens

<400> 159

```

tactgctca aaagctcctt tcaggtcagg gaggaaaagt cactggggag gtgaaatgac 60
tctggacttt ctgggagaaa aatgagcagc tgctgaggca tgaggcaaga agatgatgcc 120
tacaggaacc ctggcttgtg gttggttggg tgaagccggg tcctgtttca tctgtgtcgt 180
taattgcttg gtaatgaaac rtaaggccct aatttgactg ggctcaattt tccacctaca 240

```

259/289

```

aagtgatggt tcacgtgttc acagcctcgt gtcccgatga agatgccacg ggtgagtatt 300
ctttgaaaac caagaagagt gatgtaaagt tgggtgcactt tatcatgagg tagttgaact 360
gaaggctctt taagctcctt ctcttgcaat atgagtaaata ga 402

```

<210> 160

<211> 402

<212> DNA

<213> homo sapiens

<400> 160

```

catcttgctt cctacacagg cgactgaatg acaatgaggt atctgttctg gagggcactg 60
gcatcttcaa gaagttgccc aacctgcgga aaatgtaagt caacttcagg aacttggcag 120
cagcctctgt tctctagcca gagcctgtgt tctagactag aggaaccagg ggaccggcct 180
ctccccagc ctctgctcca ytccctccca gccttctcct cagccccgct gtggcctctg 240
ttaggaagca agacatgtag acacagacca aagtgatgct tcatggtttc agttgagtgt 300
tatacagagc gagcattcca caccatccct gaccctccc tggaccctct gctcacccca 360
cccctacacg ccatccaaca cctaccccag ggctggtggg tg 402

```

<210> 161

<211> 402

<212> DNA

<213> homo sapiens

<400> 161

```

aaaatgtaag tcaacttcag gaacttgcca gcagcctctg ttctctagcc agagcctgtg 60
ttctagacta gaggaaccag gggaccggcc tctccccag cctctgctcc actccctccc 120
agccttctcc tcagccccgc tgtggcctct gtttaggaagc aagacatgta gacacagacc 180
aaagtgatgc ttcattgctt yagttgagt ttatacagag cgagcattcc acaccatccc 240
tgaccctccc ctggaccctc tgctcaccac acccctacac gccatccaac acctacccca 300
gggctggtgg gtgggactca ggtaaggact agcaatggg caggggtatc taaggatatat 360
gctatttggc aatttttgtg tggtgacagt taaatgtctg tt 402

```

<210> 162

<211> 406

<212> DNA

<213> homo sapiens

<400> 162

```

gtggcctctg ttaggaagca agacatgtag acacagacca aagtgatgct tcatggtttc 60
agttgagtgt tatacagagc gagcattcca caccatccct gaccctccc tggaccctct 120
gctcacccca cccctacacg ccatccaaca cctaccccag ggctggtggg tgggactcag 180
gtaaggacta gcaatggggc acrggtatct aaggtatatg ctatttggca atttttgtgt 240
ggtgacagtt aaatgtctgt tttcaaattg aatcaaaaga cccctgcac agtgatacac 300
atcagaatga acatgccagc agcttcccac agtgggtttc ctccaggagt ccgtgggtct 360
gaccatgcct tggcctaggc aagggccccc ttgcctatgt tggcct 406

```

<210> 163

<211> 381

<212> DNA

<213> homo sapiens

260/289

```

<400> 163
tgagcttctt taagaataac attttcaatt ctttacctgg catttcaagg aattcttttt 60
gattgggacg tgttgctgga caattgtggt cctttggtag catcatattt ccctgctgtt 120
tcatgtttcc tgtgtcatta cttggatttc tgaacatctg gtgtagcagt cacttgttct 180
aattgtttga aattgctttt gtaggggaga attttctcyg aggatatata tatatatata 240
tatatatgtt gttgattaag atactttggg tttgattttg agtgccctgtg gtagtgtgat 300
ctttgtatga attcctcggc agggcatagg atcagtgggc tctataatca catcctcagt 360
gacttagggg accattatta g                                     381

```

```

<210> 164
<211> 625
<212> DNA
<213> homo sapiens

```

```

<400> 164
tgtctgctta ggaccagaag ccagtctgca aagggaagt gggagatctt gcagaatgaa 60
agagcattac ccttgggaaa gtaggagacc ttctctgaaa agctgaaaga acaccatctc 120
tctgtgggat ggattcctat aaactcctga aaccagcctc tagataagga tttctcaact 180
tcggaactat ggacattggg gttaattatt cgttggtggg aggctgtcat agacattata 240
ggatgtttaa caacatctgt ggccctctacc cactagatgc cagtaatact taccgccagta 300
ttgacaacca gaaatgtctt cagaccttgc caaatgtcac tgagggagca caagtgcccc 360
cagttaagaa tcaactgctt aaagcaatgg tcctcacat cagctgatta gaggaatcac 420
ctgagcagat ttttttcaag ctactgatgc tcaagcccat gctagaccaa ttaaatacaga 480
atacctgggc atggaactca ggcacagag gatttaaaag ctccccaggt gattctaata 540
tgacagtaac attgccacag ctctggatgt ttatccccgc aggggaagctc gaggttgacg 600
ctggcagagg actgcacccc cacca                                     625

```

```

<210> 165
<211> 402
<212> DNA
<213> homo sapiens

```

```

<400> 165
gagccagctg ccatctgggc atggagttgg gaaggggctg gcgctggctg agggagggcc 60
cagagcagag gggaagggag gtatggcagt gagcgactc aggacctgcc atcagtactc 120
tggttttgct gccaggggc agtggacatc aacattgtgg ccaaatacaa tgcctgcctc 180
tccagcccgt gcaagaataa ygggacatgc acccaggacc ctgtggagct gtaccgctgt 240
gcctgcccct acagctacaa ggtatgctgg aggccctgcc cccccgtgtt catgcctcag 300
gctcctcctt cagccctggc cctagagagg ggcacatgc cctgcgtacc ctcccttctc 360
caagggacag cctggatgag tccatcgac aggtcaccac tc                                     402

```

```

<210> 166
<211> 649
<212> DNA
<213> homo sapiens

```

```

<400> 166
gagctcacca gcatgatgga gtggacacac agagagagct tagtgatgtg gagtccagga 60
cgcccgaacc taagcaagga caccacagag gcaatcacga atccctcatg tctcaccttc 120

```


261/289

```

tgaggagctc ttctcaaggg ttaaactagt ctccaaattg cctttgatgt tacagcagtt 180
gtaattgggt ttatgcctat gagggtgaaa aacaagaggt gaccctagct ccacgtcttc 240
atcacaagag cgcgccacc tgccctgggt cttgttcccc agggccctgg atcaactggg 300
gtactgaggg caccaagccc acgttttagag aggagagrtt gaagagttaa agcaatagca 360
gaactaacca gatttttagg gtagttctaa ttcagtcata tcctgggtggg ttcaacgtgg 420
cctgatgcgg aaccccacag gtagacgcag aagagtgaat ggggaaaagg tcattttctg 480
gtacaagagg aaggcagtggt aaaaaaatcg acagcagtcg tgaaacctag gtcaggggtgt 540
gctcactctc ctagagcggg gttgggtgtcc tgggtacaggg tgtaggata ttcaagcacg 600
atgttgccca cttcagagaa cccagagttt aatgcaagtc gcagtgtgt 649

```

<210> 167

<211> 590

<212> DNA

<213> homo sapiens

<400> 167

```

ctgcttggtg gacctccttc cctgggtctca tgctcccacc cctaccgct ccctgaacac 60
tgtcctcagg ttcttctctg ggccctggca catctctgga aagaaaatct caccctaacg 120
acaatcgctc tatccccagc acctttcttc atgactcacg ccaaccttgg cctctattcc 180
taccctgtgc tggccagggc tgagttaatt agctctgcca aacagtggta cccaaaaaga 240
aggacagtga gagccagagg agggcagggg attatctgcc aaccttgacc ctttgggtctc 300
ataagtatcc tgtagtact ttggacccca aatggatgtg gcggccctgc gtggcacagc 360
agggaaagag tgcaggatcc aaggactggg atctccccag gaacacagtc ttggcaattt 420
tctgggcatg actgtaggtt agcgggggtg caagrtgggg gcggggctat agaaagaact 480
aagtaggaga aaaggaaaat ggaaagtgga cctaggaagc agtagagctt agttctaact 540
ctagctctgc cactatcgtc ctacctgtag atctgcagga tcctgggtgc 590

```

<210> 168

<211> 401

<212> DNA

<213> homo sapiens

<400> 168

```

atcacgccac tgcactccag ccttggccac agagcgagat tcgggtctca aaaaaaaaaaag 60
aaaagacaga tttagagagg tttagtgact tgttcaagat cattgtctta ttcatccttt 120
cctgaatacc tgctaccggg tagttgctgt gcttaactct ggagggggaa agaaagcaaa 180
cagtgaatga gacacaattg ytgccctcag ggagctcttg gtctagaagg ggaaataagt 240
aaataagcaa ctacaacaca aggcgatacc tgaaagaaga gccatgggga tacaagttag 300
aggcacctaa cccagtctta gccacccaaa aggttttctg aaaggaaggt taataatcag 360
cactgacatt catcaaaccg tgactatgtg ctgcacaaag g 401

```

<210> 169

<211> 1118

<212> DNA

<213> homo sapiens

<400> 169

```

ccagggtgctt ctccctcttt tgctcctcag ggcaaggact gcactgtgcc catcaacacc 60
tgcatccaga accctgttca gcatggaggc acctgccacc tgagtgcag ccacaaggat 120
gggttcagggt aacagttcac ccctggcctc cctcactgta ttagtttgcct ctccactgc 180

```

taataaaagac	ataccecaaga	ctgggtaatt	tataaaggaa	agaagtttaa	aggactcaca	240
gttcagcatg	gctgggaagc	ctcacaatca	tggcagaagg	caaaggaaaa	gcaaacatct	300
taaatggcgg	gaggcaaaag	agagcttgtg	caggggaact	cccatttata	aaaccgtcag	360
ctctggtgag	atttattcac	taccatgaga	acagtatggg	agaaactgcc	cccgtgattc	420
aattatctcc	acctggcccc	acccttgaca	cttggggatt	attataattc	aaggtgagat	480
ttgggtaggg	acccagccaa	accatatcac	tcaccttgga	gggctccctg	ggcaggctaa	540
agaagcagag	ataygaccag	cgagggcgtg	cccagtgcc	gtgctgtgct	ggccctgtat	600
gagaatgatc	tcaaggctct	tcgcaccctg	taagggaagt	acaatttata	cccactgtgc	660
agataaggaa	gttcaagcat	cagagggaca	aatcctctgc	ctagagttag	attaagcatt	720
ggcacaggga	tttgaaacca	ggtcccaacc	tcgtgcttcc	tccaaggagg	gtgtctgctg	780
ctggctaaag	tcagagaagg	attgggtgaa	ggcttaaaga	ctgcccgtct	ggcacttcca	840
ccatgctttt	ctgagttata	aaataagtgg	cattttattat	atgctcacta	tgccaggtag	900
caactagtca	agtattttct	catttaaata	cctacagacc	ctatccagta	ggtaggtatt	960
atcttcattg	aacagatggg	gaagctgaga	cacagaaatg	gacttgctct	aggtcgtatc	1020
tcctgatgct	cattcctgga	tcttcagggc	ccacctccag	ccctctttcc	ttcctgacat	1080
taacatttca	agaagaaaag	ggaatagaag	tcacttag			1118

<210> 170

<211> 599

<212> DNA

<213> homo sapiens

<400> 170

taggtatttt	gtagcactgc	agacttcaaa	ggcaatgtgt	ctagagacca	gaacttcaaa	60
ttcctttcat	acttccttcc	ctgaaaaatc	caaggggctt	acttttctgt	aacagggtgaa	120
ctgggctgct	aagccttgtc	tgtgtctctg	aagcctcctc	tgacctcctg	ggggagggtta	180
tgggtccccc	ttgtgcttcc	acaaagtttg	cccttctggg	cacacctaca	agtctgtatt	240
gtaattgcct	gcttatttgt	agatcttccc	aaataggctg	tgggtaggaa	aggacccagt	300
cactgttgtg	tccccagtgc	ctggcacagt	acctgccaca	caggagggtgc	tcagtaaata	360
agtgtggaat	gaaaaaacia	atgaataagc	atggcccaaa	gtsagggcca	ggcatcctgt	420
gctctcagct	gcacctgccc	ctgcccctga	aagatcaagt	aaaacagcca	aatgggtgatg	480
ctaggacagt	gtccaggagg	acacctggaa	tcttcccgtg	gtcactgcca	aagaaaccaa	540
ggcagagggtg	caggaggata	cacaaggagt	gagaacacag	gactcctgac	gtccatgcc	599

<210> 171

<211> 608

<212> DNA

<213> homo sapiens

<400> 171

gccaccacca	ctctcatata	tgcacctctg	gaactacttg	gcaccaacca	aagacctgaa	60
aaagtatttt	agtcactcac	attcagccct	gcctcagacc	ccaagcatca	tcatcatcat	120
catcatcatc	atcatcatca	tcatcgctat	tatttatgga	gctgccatta	catgctaggt	180
gtcttacata	kataaccatt	aactaattcc	ccatagggta	gttcatatta	tttccatttc	240
ataagtggta	aaaacaaggc	tcagagagaa	ctagtcatth	cctcaaggaa	cacagcagcc	300
aacttagaat	gtgcactccc	atctgtgtgc	ccctagaacg	catgttttga	gaggggctag	360
ccaagtggtc	ctgcatagag	gctcccagca	ctaactttgg	gctggatgcc	tgggttcagc	420
tgcttgctcc	ccatttcact	tactgctgtg	cgatcttggc	catattacct	cactttctaa	480
gtctgtcttt	cctgtctgta	aaaatagtgt	aataacaatc	acaccaatct	cataggggtg	540
ttgtgaacat	gatatgcgat	catgaatata	aaacacttag	catgaggcct	ggaacggaaa	600

atgtgctc

608

<210> 172

<211> 663

<212> DNA

<213> homo sapiens

<400> 172

```

ggagtcagag tcatcagaca ttctggagcc ttggatggga aagaatttag catgctgaac 60
acctccagca trcacactca cacacacaca ccacacacac acccaacata gtcacccact 120
ctcgtgtata cacgtatata gatttataacc agaaacttgc tgaaggaggc acacaaacag 180
acatttacc cacaacataa gcataaggac ctttataaaa atgatatatg cagacacgtg 240
caacatgcac ataaacatat atacaaacag gcacagacac acaagcacac acatacatac 300
aagctgatgt ctacaaccac gtcttgattc tctcttctct tcccagaaat atgtgtgcac 360
accctagcag ccacacaata tgcgtgtgta tacacacata tgcattgacat gtgcttccaa 420
gaaagcatgc acaaacaata atgtacatac acatttacac acagccccag tggggctcca 480
gtccctgcta tcacaggaca aacctgatca acatggctgg actgagctta gaattggcaa 540
aagcatctca cctatacaca cacacacacc accgtggcac catttgggac agaaaagatc 600
atgcctgtgc tctctcatcc ccacctctct acctgtaaga tgctgaggat gtaacttgat 660
cgg 663

```

<210> 173

<211> 121

<212> DNA

<213> homo sapiens

<400> 173

```

aggagagtca gcgagcgggc agaggaagac cgaggtcagt gtgcataaac ccaaattgata 60
yagccgaggg ccctggccca ggcattgaaga tactaagcac agggctctggg gatagagatt 120
a 121

```

<210> 174

<211> 516

<212> DNA

<213> homo sapiens

<400> 174

```

tcttcttggt ttggatccgt tgctgggtgag ctagtgtgat tttctggggg tgttaaagaa 60
ccttggtttg tcatatcacc agagttgggt ttctgggtttc ttctcattag ggtaggggtct 120
gtcagagggg aggtctaggg tttaaggctg ttgttcagat tctcttgtcc cacagagtgt 180
tcccttgatg tagtactccc cctcttttcc tagggrrtggt gcttcctgag agctgagctg 240
tagttcagct gattgtttatc tctcttcttg atctagccac ccagcaattc taccaggctc 300
gggctggtac tgggggttgt ctgcacagag tcctgtgatg tcagccatct ggatctctca 360
gccgtggata ccagcacctg ttctgggtggc aatggcaggg aagtgaaatg gactctcttg 420
agggccttag ctttggtttt ttaatgcact atttttgtac tgattggcct cctgctggga 480
ggcactttca agagagcctc agctatggta gtatgg 516

```

<210> 175

<211> 402

<212> DNA

<213> homo sapiens

<400> 175

```
aagggaact gacgatcatg ggaagggctg agtgaccatg cctgcatggc atgaagccta 60
gtatgagggg ccctgagccc agctttgtcc ttagtcattg ctgtctctgt gggtgtaggc 120
atctggaaga caaccagggtc agcgtcatcg agagaggcgc cttccaggac ctgaagcagc 180
tagagcgact gtaagtacag wacagcctcc tttcttaaag tatttattta catttagtgt 240
tttttgtttt gttttgtttt gtttttgtaa attggcctta taaccttggt aaaaaagggtc 300
tccagtgttt aaatagaatg tttgctatta tacttaaggc acattagatg catgttaaag 360
aaacactgag atccacttac actccttttc tgtaaaagtt gc 402
```

<210> 176

<211> 581

<212> DNA

<213> homo sapiens

<400> 176

```
gaacttagtt ccagtgatag ggaaagtgga aggctatgaa caaataaatc accatgcccc 60
gcttctagga tgacagcgat gtcagggtga ctaaccatgc ttccctttca tagagatgat 120
aatttcttct ccagcctgtg cattaaaaga gcaatcagga caaaagttaa ctgtcttgta 180
gcttaatgga gaggagggga ggagagcatc agaaaggggc agggcccttg ctgaacaccc 240
acagctgtgc agacaggtag caaaatttga aatgggcatt gatggactag aggagcaagg 300
aatattaggt ttcattgctg aatattgaac actttcatca atccttaagt ctgtgagtga 360
taagaaactt cccaagtgct tgtctgtcra aaagtctaag acattcagag gtacaggaaa 420
aagcaattta gattttattt tccatcttta cttggtagtt aattttgacc cataagtgtg 480
gtcccatgca agaagtacag actgggcca ttggccactg ccttggtatt tgtatgccat 540
ggaatcttag ctggcaaatt gttactagaa gtgacagcta a 581
```

<210> 177

<211> 683

<212> DNA

<213> homo sapiens

<400> 177

```
aagaggggtc agccccattt gtatgacatg atctgagagt tgggggaggg gaaacttcaa 60
cagaaaaatt tgttacctaa agaagggacc acagaaggca ggcagttaca tataaaagag 120
ttctgctatg tgcataatga atggtttatt ccatacaata tccttaaggt tagccgggca 180
cgctcaaggg atatcgtaa tcatcagaat tgccgccttc tggacaagca acatcccttc 240
agtccaagcc agtctggatt aaatagaccg taattgtaac ccacaaaaat ctgacctgaa 300
tttgcctcc attgcagtga cctggacaga aataatatca ccaggatcac caagatggac 360
ttcgctgggc tcaagaacct ccgagtcttg taagtagttg atggctctca agtgtgtttt 420
catttttagc tcttcagcct cacaaaaaaa tgttccactg cccctgacat cacactccca 480
agccctggac aacaggaatt caccattctg cagcagaaag cccctcgtaa gctacccac 540
atgcttacag gtatcacatt ctgtgtctag atgctgctgg ctgagctaga tcgatggaag 600
aacttagttc cagtgatagg gaaagtggaa ggctatgaac aaataaatca ccatgcccag 660
cttctaggat gacagcgatg tca 683
```

<210> 178

<211> 304

<212> DNA

<213> homo sapiens

<400> 178

```

gacctccagc aagtcgcttc acttctctga gctgttttca gacgacctct tggaagatcg 60
tggaacttaag taaagaatat gagtagagtg ctcagctcag tgcaaaaatt aaaaaaaaaa 120
aagtgtcagg agccttatcc gtccttggat cttaacagtg aatgagtttc agtgtttytt 180
tccaggggcc ctgctggccg agcccccttc cttccctggg tccttctctc tccctcctct 240
actgcctcct ccctccaggc tctcggtcgc tccagcaaag ttcccaactt agtcgacatg 300
acgc                                           304

```

<210> 179

<211> 606

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> 560, 561, 563

<223> n = A,T,C or G

<400> 179

```

ttagtctggc tggttggaaa cagaaaacct ccgctgactg tgggtggccac atgaagggta 60
gtatctcaca cagggaaata tacacagggt gacgagaaag tttgagatgg ggtttcttgc 120
aggaatgggt gagtagtttg cttttgagaa acacagggtg aggagaaagt ttgagatggg 180
gtttcctgca ggaatgggcg agtagtttgc ttttgaaaag cctatggaaa agtaaagggg 240
aaaattcaaa agtgtccagg gactttttac caactctaaa aatgacacca cagagtgtaa 300
agccacctct ggcccttgga catagaaagt tctaaacaat agcctgacct cctagtgtatt 360
taccagctct tctccaagga gggtaattgc tccatggggg ggctaccgcc ttctgcagat 420
gccccagaat cagctgagga agtggacaga gccacatstt cagcattgga agcccgagg 480
cctggctctg gttatttcac taatagctag gtgaccctac ataaatgccc gcctttctct 540
gaaactcagc ttccttggtt ncngtaaaat acaagagttg aactatatatt gggttctcaa 600
agtatg                                           606

```

<210> 180

<211> 606

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> 560, 561, 563

<223> n = A,T,C or G

<400> 180

```

ttagtctggc tggttggaaa cagaaaacct ccgctgactg tgggtggccac atgaagggta 60
gtatctcaca cagggaaata tacacagggt gacgagaaag tttgagatgg ggtttcttgc 120
aggaatgggt gagtagtttg cttttgagaa acacagggtg aggagaaagt ttgagatggg 180
gtttcctgca ggaatgggcg agtagtttgc ttttgaaaag cctatggaaa agtaaagggg 240
aaaattcaaa agtgtccagg gactttttac caactctaaa aatgacacca cagagtgtaa 300
agccacctct ggcccttgga catagaaagt tctaaacaat agcctgacct cctagtgtatt 360

```

266/289

```

taccagctct tctccaagga gggtaattsc tccatggggt ggctaccgcc ttctgcagat 420
gccccagaat cagctgagga agtggacaga gccacatggt cagcattgga agccccggagt 480
cctggctctg gttatttcac taatagctag gtgaccctac ataaatgccc gcctttctct 540
gaaactcagc ttccttggtt ncngtaaaat acaagagttg aactatattt gggttctcaa 600
agtatg                                         606

```

```

<210> 181
<211> 606
<212> DNA
<213> homo sapiens

```

```

<220>
<221> misc_feature
<222> 560, 561, 563
<223> n = A,T,C or G

```

```

<400> 181
ttagtctggc tggttggaaa cagaaaacct ccgctgactg tggtgccac atgaagggtta 60
gtatctcaca cagggaaata tacacaggtt gacgagaaag tttgagatgg ggtttcttgc 120
aggaatgggt gagtagtttg cttttgagaa acacaggttg aggagaaagt ttgagatggg 180
gtttcctgca ggaatgggcg agtagtttgc ttttgaaaag cctatggaaa agtaaagggg 240
aaaattcaaa agtgtccagg gacttttayg caactctaaa aatgacacca cagagtgtaa 300
agccacctct ggcccttgga catagaaagt tctaaacaat agcctgacct cctagtgtatt 360
taccagctct tctccaagga gggtaattgc tccatggggt ggctaccgcc ttctgcagat 420
gccccagaat cagctgagga agtggacaga gccacatggt cagcattgga agccccggagt 480
cctggctctg gttatttcac taatagctag gtgaccctac ataaatgccc gcctttctct 540
gaaactcagc ttccttggtt ncngtaaaat acaagagttg aactatattt gggttctcaa 600
agtatg                                         606

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<210> 182
<211> 557
<212> DNA
<213> homo sapiens

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<400> 182
aactatatgt ccttgtttta ttttatttta ttttttttgg ggggtgggtt ccataggggtt 60
taccacatat gtctttaact aaccatagtc tactttcaaa taatatcata ccattttacc 120
tacagcataa gaaccttaca acagtataca gtatacttcc attactgttc tcccattctt 180
tgtgctgttc ttttcatata ctткаacacc tattataacc cccttggtac attattactt 240
tacttttaac agttatcttt ttaaacacct ttattgtgag gtacaattta catgtaacac 300
aagtcactca ttttaagatg agtttgatga gttttgggaa atttttatag ttgtgtgact 360
atcaccacaa tctagcctta gaacacttgt gttgcccacaa agagtgcact catgcctgtt 420
agcagtttcc actatctgtc ccaccatccc cttggcctca ggcaaccact gatctgctct 480
ctgtctccat agttttgcct tttctttaca tttcaaataa atggaattct atggcctgta 540
gtcttgctct tgtgtct                                         557

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<210> 183
<211> 1001
<212> DNA
<213> homo sapiens

```

267/289

<400> 183

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atagagtctt ccaatccatg agcacagtta catcaatcat tttataagct catttttagtt 60
tcatcaaaat tttgtcatat tcagcatcaa atcttgcaca tatttagttt tcccctaaat 120
atttcatgtc ctttaaatgct attgtaaatg atactgtttt gtaatttcga tttccagtta 180
ttcactccca atatctaaga cggcaattta ttttcataca ttgaccgtat cttcttataat 240
acgacaactt tactaaactc aattagtaga atcttttcaa aaagttttat ttggataaatt 300
ttaatgagca caagagccgt tttgttacat ggagatattg tatagtgggtg aagtctgggc 360
ttatagtata accattactt gaacaatgta cccattaata tctcatccct cttcctgctt 420
gcacctgga cccttctgag tctccagtgc ctactatttc atactctatg tccacaagta 480
ctcattattht agcttccacc rgtaagttag aacatgcagt atttaacttt ctgtttctga 540
gttgthttctt taagataatg gtctccagtt ccctcttgt cactgcagaa aatacatgct 600
ttcattcttt ttgtatagct gtcacctagc agattctttg ggatttccta tgcagataac 660
tgtgttgtht gtaaatagag atttatgtct tcttttcaa tctgtatgtc tttttacttt 720
ttctcatatt attacactgg gtagaacctg aagtatgtgt tgaaaatgag tgggtgaaatt 780
agacattctt gcctttattht ctgattthtag gagggagcc atcattcttg cattattatg 840
tacattagct gcagggtgtt ctatagatat tctttattca gtttcaggat gcttcccttt 900
tcctthtagct ttccgagaaat ttttatcatg aatacatgtg aaatgttgct aaatgcttht 960
ttcgcaccta ttgagatgat agtatgcttht ttattthttt t 1001

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<210> 184

<211> 1001

<212> DNA

<213> homo sapiens

<400> 184

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ttattatcag ctatgaaaat gcattttacaa gtcacactgc tatatgtcag caccctgata 60
cctcctaggc catgagaaat aaacagtaac attttttgaga cttcttcttc aaccagtc 120
acaaacattc cattgcaaag taagaaaaga gggcagggca tgaattttaa agcaaattgt 180
tccaccattg tctggagtct ggtgtctgct tctttctgaa aagattattg actctthtct 240
gtttctthtta ttaaatgtca tattcattta agtgthtatgc aagttgcccag tgtgtatgga 300
gcatagtaat agatgtthtt cataaatgct ttttatcttht atttatcagt gacacaaaat 360
ggcaagtgat aatcaaagca atgacttagg aatcctgacc aagacaatct ttccatggaa 420
aaggatcatt ttaagaaaa taataatagt ggctacaatt tttaaaatga gaaaactgag 480
gtthtaggtga gtthtgthtg ythtgtaag gthgattgaa atthttacag atgggaaaat 540
gtgtccttht taagagtata ctgtgatgag thttgaaaag tgtatacagt tgtgtaatta 600
aaatcataac taagctatag aacatttcca tcacgcaaat gtccttatgt cthtttatag 660
cctattatct ctctctcca ccactctcta gcaagcaaaa atctagthtt gggctctgct 720
thtgcttht cagaatgcaa tataaatgta agagaatttg taactthtgt gccttcttht 780
actaacagaa tgtthtttcag attcactat gthgttgct gtatcaatgc thtatgttht 840
ctgctaagth atgttccatt aaattcatgt accacaaatt ggctgtccac tcaccaactg 900
atgaccattt gagthgttht thttthtttht gagaaggaat ctctcctgt cgcctaggct 960
ggagtgaat ggcagatct tggctcatgc aattthtgc t 1001

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<210> 185

<211> 1001

<212> DNA

<213> homo sapiens

<400> 185

268/289

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ggaaaagaca aaccacccat aattcataat tctctcacct ctcttgaggt tctgctttat 60
gttaattttt atagtagttt cctcataatt agatatcaca tctccatcca atattacata 120
ttgttttcctt catttaatat taagcattaa gcattttcca taaagttaat ctccaaaacc 180
atcatttcaa ttgttgcata atttttcatt tgtccattta tgtgaataaa tgtactatat 240
gctacacaac aatttattat tggacattta aattacttca aatgttatta aaatatatta 300
ttatgaatgt tttgagcata tttaagcata attgatgaat tcataattca gctgtctacc 360
atttaatgac caattattgg ctgccagtta tgggtgactg tgcaaatgac ttttcataca 420
tctcatttga tcttaatagc acacagagta atgtctatgt tgaagtagtt tgtcacatat 480
aaaaatgtaa acataatatg raaacactct tgaactgatt gatcattttt gctaaatatt 540
aatatgtagc cacatttgtt ttagaattct ttaaaaagta aaatatttta catagagttg 600
aaactcctca tcctattgcc ttcccacctt ccccgtaggc gactactatc cagaacttag 660
tgtttacatc tctattttct aattattttg ctcatatgaa tgtgccaaata aagaacacaa 720
ggaattaatg tgcttctttt aagatttata taaatggcat aatatactgt acatattttt 780
gaacttcgtt gttcacttgt gtcttaaaat tatgttgata catgatgatt ttgttaattt 840
aaacagctgc atagttttcc gctgtatgta taatcacaat ttatttatgt gttaatttga 900
tgaacattta ggctttccct ataatttgcg tttgcaagca atgctataat gaacatcttt 960
ttacatgtct cctttgtgca catgtgtgca cttacatcta g 1001

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<210> 186

<211> 1001

<212> DNA

<213> homo sapiens

<400> 186

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aattgaaaag tcagtgaag atacacacat ctatgtttac ccctttatgg caaagataaa 60
actgaaatgc agtaggaatt gaagtgtatt ttcaaaaatt aatttttcat cagttggata 120
cccatatgag aaaactgaat tttaattttat actttgtatt ataaaagaaa gtccaaatgt 180
attatagatc tacatataaa aattaagttt tctaaaggaa aacacagaag aatatctgta 240
ggcgaagatt tcttagatag aataatcata aaataactaac aataaaagaa agttgggcta 300
cattaaaatt aagaatttct atttgtcaaa agacaacact ttgagagtga aaagacaagt 360
tatacggtaga gagaagatat ttatagtaca tatatctcac aattgattag tattcataat 420
acctaaggaa ctcatcacaca ttgataataa agatataaaa ctcaataaaa aaatgggcaa 480
aagattcaag taggcacttc rgaaaagaag cttttcaaag gccatttagc atttgaaaag 540
atgtttaaca tcattagtca ttagagaaat gaaataggga gactgtccta ttacctgagt 600
gggcccattt acaaggggtcc ttaaaaatgg tagcgggaac cagaagagag aacaagatga 660
aagtgagaag aattcagacc aaaactgctg gaggaagtca gccaaaaagt cagtgaacga 720
aaaaaactca ggtggtctct agaagctgga aaaggcaaag aaacacattg tcccctagag 780
cctccagaaa ggagggtggc cccgataaca cctttatctt aacctagtga gattcttatt 840
ggacttctaa tctacagaac tgtaagatag taaattttgtg gtgttttaag ccactaaatt 900
tgtggcaact tgtcacacca gcaatggaaa aatccttcta tgaccagca attccactcc 960
taaatatata cccaacagaa aggcaaagat atatgcacca a 1001

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<210> 187

<211> 1001

<212> DNA

<213> homo sapiens

<400> 187

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acttagagct gtgcccctgg acctcatagg aaacctatta gagcactttg tgacatgtgt 60
ctgagactca gaactaaagc agagaagtgt ttctagtgat ggaaactgca tggggcaaac 120

```


269/289

```

agggacatat gggtcagagg aaaagagaac agtaaaaaga tgtcaaactct ttttgtctgc 180
agagataatg aggttttggg gagaagaaaag aaggcctttg cctgtggctc tctgggtgctc 240
tttaataaac aaccaagaaa taccttattc tttggagtgc ctctaataaa aattgttcct 300
ctgcatctgc gatgatctct cagaatgaaa ccttacacct tgtagtagaa acttagtgca 360
atggttttca tgacttgtaa ttttcctgtg ccaaagaaa agcttcctgt tcagtgggcc 420
tgaattgaga caccatttct agtctgcagg aggcttgtag gatgtcttc cctggctgct 480
agtgagctgt ggctcatgtt rtgatttttt ttaagcctc cagcattttt cgctttcact 540
ctgattgcat cgggcgaagt ggcttcagcc agtctagggt gaccagtggg gtaccctgga 600
tcccgtagc agtcaggagt accagagaga tacaagtcag tgaggtaaac caatccagct 660
gcaagtgcag tgtctgtgtg ggctccaggg gagcatggaa atgtcaccta ctctgtggc 720
atctgcacca caccgtagca atgtgggaaa agcatgagca ataaattact tgccaatgaa 780
ctccagacgt ctccagccaa gtaagcattt cctgggactc taaggatggc gtccaagata 840
aaaaacagaga aaacacataa aatacgcaga gcagacaaaag gactacatca aaaaatataa 900
aacttcctca taaatcaata aaggaaaggc caagtcatga tagaaaacta gataatttac 960
agaagaaaacc tggaaagcca ataataatgg aaaaaagctt a 1001

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<210> 188

<211> 1001

<212> DNA

<213> homo sapiens

<400> 188

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atttcatctt cagacagatt ttatccttat cacgtgggcc ccagattccc ctggctgaca 120
ttccacagct ccagggtccag cagaagggtga gactgtgctc tcccaccact caaccaagtc 180
ccgtgatgtg tctcgctaga ccaagcttaa tcacttccat tctcctgaac caatagctgt 240
ggccagtagc tgctcaattg tttgactggc aaagcctggg ccacgagtc acttctggag 300
ccaggggtga ggaactgtca ccagcagtag atgctgatta ggaaaagaat accctcagtc 360
acactctgct tattcatctt cattcattca ttttgtagag atgaactgag gacttatttg 420
tgctagaaac tagagacaga atcccagata acttctgctc ttccttcaca atgtcactca 480
ggagtcatca gttctatgat maatttggtc atttccgccc cctcggcaga gtcagttatt 540
ccctccttga tgctcttgct ctctgcagga ttatgttgct atctcccat ctttctccct 600
aacttactgt gagctcctgg aggacaggta ttgtatctta tttatcttgg cctccccaga 660
taccaacagc aggcacagac aaagcattca caaacctttg ttgaataaat atgcgaatga 720
tgagttaatt atttaattag ttaattaatg catatgctcc taatcctgca gggattttta 780
caaactatca aggaaaataa atccgtaaat agctggaaca cagtgtgatc cacggagtga 840
cagccacatg agcaaaggct ggtgagtgc atggaaggta gcatgtgttc aacctgaaga 900
cagaattctt aaagttgtta aagatattct ttgctatttc aaatctaat catgctccct 960
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<210> 189

<211> 1001

<212> DNA

<213> homo sapiens

<400> 189

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ggtactgttt accctaaaac accttcctac tgatactcca aatcctaata gatatttttt 60
gagttactta tcacattctt gatgtctgga agacagacaa taggtggaaa tcagtaaaag 120
atgaacaatg aggttgaggg aaggggacca aacatttatt cagtatttac tatgtgtcaa 180
aactgaaact gaatagaata ggtgatatca cccctactct acagatgaag aaaccaatac 240

```

270/289

```

cctgaatagg tttcccaagg aatcctgagt tacagagcaa tggagtcaag attgaacaag 300
ttctaactca aagtccttat gtttgtcatt atttgatgcc gtgagggttag tactggaggg 360
ttagatgagg aacaggacac caggcagaga gatgagaatt ggattctggg agtattcgag 420
tgtgggataa ctgagcctaa tcaagcaggt agccagagtg ggcacagaat ttcaggacca 480
ggcaccagct actagacaga rgctccatca tgacctaac ttggcattat tgcaagattt 540
tacaagcttc ttatttatgg gaagagccac actctgaatt tggctatctt gaaggttaca 600
agtcaaagtg aatggcagta acctgcttta tggaaaccct gagtaggtgt agagcaagac 660
aagtttatcc ctggaatccc ttccatgate ttatttgaag aagtattctt aggtaacaat 720
accccaatgg ttcccaaccc atgggagctt ctgaatagtt agtacacctg ggacccatcc 780
aagaccaact gagttgggtt tctaggtgtg gggccctggc atctgtgctc tctgaagttc 840
tccagacctg atgagcagcc agggttgaaa ccacagcctt ggggttaaag agctttctgt 900
aatatatgtt atttctctga gaggtaggac agagttacaa tgctgcagaa ttctaagggg 960
cagagggaga agggggaaaa gcttctggtc ctaaaagttg a 1001

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<210> 190

<211> 1001

<212> DNA

<213> homo sapiens

<400> 190

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gacacttgca gactccttga ggtgcatcat tattggaaag attagactac ctcaaagtgc 60
agtgtccttt ctgatggtta taggaatctt tatggaccta catccttttg ccctattaaa 120
tcgcctagaa cattgcttct caaaccttaa catgtacaaa aatcacctga tggttgtgtt 180
aaaaatatgaa tcctgatttg gtagagttac tgcatttccc atcatctttt aggtgatgat 240
gagactgctg gtctgcggtc taccttttga gaagtcagag gactaaagtc aaagtcctta 300
gactgcctcc agttctactg ttcagatcca gtccattga tttgagggct ggagtgttct 360
catataaaaa gaggtagaag atgaaaagta actgagattt gaaatcatat ctaggccact 420
gaaccctgaa ctaggcagtg aagccagacg gaccacgcca aatcaaagcc ctggaagttt 480
catgtagtca ttccagacat rcccctgagg ccaccagagc catttgttcc aaaatcactt 540
ggaagacaga aagcaatttg aaatcatgcc tgagccccag gcaccagggg ctgcccagtg 600
gggtcagctg cccctgattg aatggcactc catctctgtc cccagaaac actgggatcc 660
ccagcctgtt tcttcacgaa ggttctcttt ttgtattgct tcagagtatt gcacaggata 720
ttagccactt ctttctctat aattcatcct tccactttgc catctggaat atttctcttt 780
tacaagtgcc taagttgtta cagtttgagg cagttgaatc ctaactttgc catttggggg 840
aatttattgt ttttaatgct ttcttccaaa aattcagatt ctgtgggttg aaacagaatc 900
cagccaagat ttttgcttcc tagttggaca tctggttgtc tgtcctttcc aggtcttctc 960
tgggtttatt tttcagcttc ccgcaagtga ctatcagctc a 1001

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<210> 191

<211> 1001

<212> DNA

<213> homo sapiens

<400> 191

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aaagctcctt atcttttaaaa tgttgcata aatattgtaa acaaaactag gtgtgccaaa 60
caaaacatgt tcgaatgtca ttttttaaaa actcttggct accagctgga gctcaaacaa 120
acaatgacat gcagtgaatg ctcttatcct ttccaggtct ctaagaaaac ccaaagtcct 180
tgctccaac ctctctcccc gacagatacc cacactacat cccctcgctc ctactggctc 240
cccagacaat gagctggaca atatgaccca agaatttcac tgccaaggta ttgctgccaa 300
ggttttcgag tttcaagtcc ctagttaga gtgagtcac tcaaattcaa ttagtgagga 360

```

271/289

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gttcctctgg gttcagtcac cagtggcaga gggagaaatg actcagacgg tggagcatgc 420
agtgcctaag ggggtccagca tgtgggggct tttgagattg ttgggcacgg tgctcatggt 480
gcccagagggg agtacaaagc ygggctggag gttgcaacat gctctcagct caactcattg 540
ttggctcttt tggactgaaa gatatttgag atatttgat ttgacctcaa acatatggtg 600
gatctagcac ctcaaggata tatattatta taagcctgtt ggctcctatt ccagcctcgt 660
ttccttctgc cagcctgaac tgcacatttt gcattctggc attaccaaac tattgtaatt 720
ccccaggctc tttcttgccct ctatacctta gtgggtgccat tgtttccctg gaataacctat 780
atgtgcttct gacaaactcc tttttgtgct ttaaagctcc aaacagacat cactactttt 840
gggaaaataa ctctaacacc cccccatttg ttaaacttgt attcttcctt tgtccatcta 900
taatttgaac ttacttttca cattgtataa aaaccatttg cttatctgct tgtctgcta 960
gttaaggaga agcctttaag gtcagaaagc ttgtaatat c 1001

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<210> 192

<211> 1001

<212> DNA

<213> homo sapiens

<400> 192

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attaaataaa ccaacctatg caaaatactt gaaagggttc ctggcataaa gtaagcaata 60
tataagcata taaatataaa tctaattacc attttcaaca tgttccagac acaatgcata 120
tattggtcct atgaagtaga tattttatctt ctcataaatg aaacaaagac tcgggaagtt 180
atacaacaaa aataaatcct gataagaata gagaagagaa ggctcctatt gccagcctgg 240
ggaagtcctt gaaagcttta gggaagagca ggcagatgag tacagatgaa aggaagggga 300
gcattgaaac atgaatagat ggagaaaaag aaaaacattc catgcagtgt cgtgggtgcc 360
aggtctcctg ggagaggaca ttagatgccc agacttggac cagcaatgac attccattca 420
ctatgcattg aatgagcatc cattaaatac ataccatgac acaattatga tgggaaacgt 480
aagataatac atgtaacccc ygcctcagta tgtctactat atgttctgcc aaaatagaat 540
gagtaggtga ggtggaggtt gctgaccttc atgcccaccc ttttattgca ttattttcta 600
ataaattcct gagcactgag cagatgaaat atgcccaga aataatactt tgaggtccat 660
tcctctgtta ccaaaactgt catcagagtt tgtctcctca ttggtagctt cagaataggc 720
tttgcaaaca caaatgccta tagggccaaa aaggcccttg aatgttacta cacaagtga 780
acattctgga tataagtgca ggggcatcag aatgtaaaaa tcgggggtgaa gactctggaa 840
acctagggag cacaccacct gtaccagga tatccattct tcacttgag tgggttattg 900
ccaggtcttt caatgcttta acagaatcag aaatgtggtg tgtaatgtaa aagctcctta 960
tctttaaaat gttgcatcaa atattgtaaa caaaactagg t 1001

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<210> 193

<211> 1001

<212> DNA

<213> homo sapiens

<400> 193

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gttgaggatt tttgcattta tgttaatcag ggatattggt ctgtagtttt ctttttttgt 60
tacgtccttc tctggttttg gtaacagggt ggatttactg gccttgtgga ataagttagg 120
gataaatccc tcctcttcaa ttttttgga cagcttcagg aggattagtc ttagttcctt 180
gtacatttga tggagtttga ctgtgaatcc atctggtcct gggcttttca tcagcttttg 240
acaagaacaa attttccctt tttataagaa caccagtcac attagattaa gaccaccct 300
tatgacctca ctttaactta tctgcaatga ccctatttcc aaataagttt cattcacaaa 360
tactggagtt aaggactcta ataatatatt ttgtggggga cacaattcta cccataatac 420
agcccatgcc ttgctcccaa cttctggtta acatcagacc tgcacaaaact ttccttggtt 480

```

272/289

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aatagatttc ttgagccttc ygttttctga ctctaattta ggtctgtgtg ccttccaggc 540
acattcctca gtacttctta cctggagaag aataagggac tactgcagct tcctgcagga 600
gttctctcca gcaaagaaag gcctcaaaga catcttctta gagattattg tcagacagct 660
attgcatgga gaagcagcag agctgggagg accctcaggg gtcatatggc cattttacag 720
aggaatggac tgggtcccaa aacaattaag tcattcttgt ccaggtatgt gtcagaacca 780
ggctgccaac tcagtcttct catttgaagt ctggtacttt tctcattcca ctttaagacaa 840
gctcagctct gtcttagaca ttataaggga atcaaaaaaa tatataatat ttcattgagt 900
taaaaatgca catatttcac atttttgaat ctccaaaata gagatgctat ttccatttga 960
tggcatgtct aatcggcagc attttctctt ttttagtaga a 1001

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<210> 194

<211> 1001

<212> DNA

<213> homo sapiens

<400> 194

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tgagagagga gtgcagtggc gtgatctcgg ctcaactgcaa actgtgcctc tcaagttcaa 60
ccagttctca tgcctcagcc tccaagcaa ccaagattac aggtgtgcac caccatgccc 120
ggctaatttt tgtattttta gtagagatgg gttttcacca tgttggccag gctgggtctca 180
aactactgcc tcaggtgacc tgccctcttc ggccctccaa agtgctggga ttacaggtgt 240
gagctaccgt gccagccct cttgccactt ctatttcaac atcgctactgg aggctctagc 300
cagtacaact agacaagaaa gttaaataaa aaacatacac agtgtaaagg aagaaataaa 360
actagctctc tttcagatga tataatcttg taaacagatc ttgtagaatc ctaaagaacc 420
tactaaaatt attagaataa catgacaagt ttagtaagat tgtagggtat aagagcaata 480
tacaaaaatc aattgtattt rcatgtacta gcaatgaaca atctgaaaat gaaattaaga 540
aaatttcatt tataatagca ggaaaaagaa caagtaagct aaaatactta ggaattaatt 600
taacaaaata agtgaacaac tgtacttttg aatgacaag acattgttga aagaaattaa 660
agaccaaata agtataaaga cacatcacat tctcagatca gaaggcttaa aattgtggag 720
atgacaaaac tgctcaaagt gattcatata ttcaatgcag tcaactgttaa aactccagct 780
tgcatctttt cagaaatgga caagctgatt ctaaaattca tatgaaaatg caaggggaca 840
agaattgcc aagaatcttg aaaaataaca atgttggaga gctcacactt tctgatttta 900
aaacttacta caaagctacg ttaatcagaa gtgtggcact ggcataagga tagatttata 960
actcaaggga atagaattga gagccctgta gtaaaactct c 1001

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<210> 195

<211> 1001

<212> DNA

<213> homo sapiens

<400> 195

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ctttttatgt gtttttaaatt ttccataata aacagtttta aaatatatat ataagagtat 60
tgacatacct atgaatgcaa gatcggatta acatctgaat atcaattaat gaaatataca 120
tatcaataga ataaaaaaca aagaacataa ggtcatctca atagatgcag aaaaagcatt 180
tgacaaaaat ctaacaccac ttcatgataa aaacacctaa caaactagca atagaagggg 240
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cctttttttt tttttttttt tttggagaca gggctcttgct ctctcaccct gtgagagagg 420
agtgcagtgg cgtgatctcg gctcaactgca aactgtgcct ctcaagttca accagttctc 480
atgcctcagc ctccaagca rccaagatta caggtgtgca ccaccatgcc cggctaattt 540
ttgtattttt agtagagatg ggttttcacc atgttggcca ggctgggtctc aaactactgc 600

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273/289

```

ctcaggtgac ctgccctctt cggcctccca aagtgtctggg attacaggtg tgagctaccg 660
tgcccagccc tcttgccact tctatttcaa catcgtactg gaggtcttag ccagtacaac 720
tagacaagaa agttaaataa aaaacataca cagtgtaaag gaagaaataa aactagctct 780
ctttcagatg atataatctt gtaaacagat cttgtagaat cctaaagaac ctactaaaat 840
tattagaata acatgacaag tttagtaaga ttgtagggtg taagagcaat atacaaaaat 900
caattgtatt tccatgtact agcaatgaac aatctgaaaa tgaaattaag aaaatttcat 960
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<210> 196

<211> 516

<212> DNA

<213> homo sapiens

<400> 196

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gtcagaggga aggtctaggg tttaaggctg ttgttcagat tctcttggtc cacagagtgt 180
tcccttgatg tagtactccc cctctttttc tagggrrtggt gcttctctgag agctgagctg 240
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gggctgggtg tgggggttgt ctgcacagag tcctgtgatg tcagccatct ggatctctca 360
gccgtggata ccagcacctg ttctgggtggc aatggcaggg aagtgaaatg gactctcttg 420
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<210> 197

<211> 1001

<212> DNA

<213> homo sapiens

<400> 197

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aggatcatta tgttcattta cagacagaaa gagagagacc tcaaaaatta catgatttac 180
agagctagaa agtgtaggat ttggtattct aactcagatt tatctgactc cttaaagtga 240
gggtcagcct tgctgcattc tcttgccctc acacgaagct gtcagtgact gccaagagtt 300
tatattttta ctcatccctt ctagagggca tttgcathtt aataaagttc ttcaacactt 360
tagctcaacg gttatcaaag tacagtctag ggggtctcctg ggccctaaaa acctttcagg 420
aagtctgcaa agtcgaaact atgttcttag taatacttag atgttatttg ccatcttcac 480
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caactgggta ttcagacttg ggtatttggc agacattttc tcaaaaatga acaaagttag 900
cctgtcgttt caaggaaagc gactgacagc atttgatgtc aatgataaaa tgtgagtgtt 960
caagcaaaaa ttagaatttt gaaaaattta tatctgccac a 1001

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<210> 198

<211> 1001

<212> DNA

<213> homo sapiens

<400> 198

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taaaaataat gaaattctgt catttgcagc aacttgggtg aggctgggga cattatgttg 120
agtgaaataa aacagacaca gaaagacaaa tattagatat tctcactcat atgtgggaac 180
taaaaaagtt gagctcataa aagcagagag tagaattgtg gttaccagag tctgggaagg 240
gtactggggg atagggaaag gttggttaac aaggacaaaa ttactgttag agcaataagt 300
tctagtgttc tatagcacag cagggtgact atagttaaca ataatttatt gtttacttca 360
tagtaattag aagggagaat tttgaatgtg cccaacacaa agaaatgata aaattgattt 420
catcattaca cgtcatatac atgtatcaaa tatcacatgt gcccataaaa tatgtacagt 480
tattgtttgt cagttaaaca yaaattttta aaagggtgtt ataaatgtcc taaattaaag 540
acacagcctt atcctacggg attttctgaa gctggcttcc ccattttctg ttctccatag 600
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gatgcgagct ttatatccca aacatattga tttttattcg ggagtttacc taaaccattt 720
ttagagttat ttctatgtgc acaagcta at gaatccaagg attcctgcct gctttgtaaa 780
atagcatttt tagctactgc tgatctgacc cctggagggtc tagttttctg ggactgtctg 840
aacctatctc tgttcactct atcaacgccc agcatgctat tacacacctc tctttagttc 900
tttccataca gaaagaattt cttcacaagt acagatacgt gtttaaagag ccactcacac 960
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<210> 199

<211> 1001

<212> DNA

<213> homo sapiens

<400> 199

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gtgcctgaaa tgggtagaca agttatttcc tcatggggta ggagagaatc actgagctgc 180
atcccatgtt aatggctggg attgaagtcc ctctttggag gtagaggaga accaagtgct 240
gagaagaggg aacacagctt caaagacctg ccccaaatcc atcaaaaaca gttcttgctc 300
tgtcccctag gctggagtgc agtggcagga ttatagctca ctgcagcctc gacttcccag 360
gctcaagcaa tctcccttg ggcggggccc caagtagcct cctgagtagc agggaccaga 420
gttggtaaaa tatgcagatg tggaacctca gggtatggag ggcctactgt acgtgtgtgt 480
gtgtgtgtgt gtgtgtgtat rtatagttaa catttgcagt gcacagatat tttcatcccc 540
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ctaaggagaa ggtgctagaa ggaagaggcc ttctgaagct tgtgactcaa gcactcccca 660
ctgctctgct tgtatggtgt taataaatgc tataattcgc tcacaaaata tatacagaat 720
aagagctatg tttcatataa aaatgactct tcttctacag tctcactatg tgttctctgt 780
agtacaagga gtgagggtct ggctctcttt accaaggcac tgtctgtctc cagctgtatt 840
cacagcacac atgtagggtc acttatgtac agatacgcct tgtctcactg acacaggacc 900
cagggtcagt tttcattttg gtgaatgata atttctagat taggtcattt tcatatggag 960
tttgccattt ggggcaccc t aatctgagga aaggcctttg t 1001

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<210> 200

<211> 1001

<212> DNA

<213> homo sapiens

275/289

<400> 200

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gaccccgctcc catcagttat ggctagatct gggtaggggcc caacagcatt caacatagcg 120
acccagatgtt gccttctcaa tacaaccatg ggtagggagg tccctctagg agacatgtct 180
catataaatt attttttcct ttgctctttc ccataggatt tgataataaa gtagtgcaac 240
tctaaaggga ccaggagtcc agagaggtag gtttgagtc ctcgtcttta ttatgtctga 300
tgtccagttt gcagcttttt aaattctgcc acatatgagt tctattagaa tagactctat 360
gaatcctgga atttaacctt ggcccttggt gtccatgact cagagaatac actcatgtat 420
ctcagtgcct gaaaggagaa tgggttataa attctggacc ccttacttta gagatgagga 480
aacagagact ttagaaatgg rttgattaaa aattttgtaa gtatgtaaag gcagagacct 540
acgaaactca cctctcagta ctccaaatac agcactcctc acttactctg actgcttccc 600
tgaggaggaag aggcaactta ggagccagtg aaggtggaca cgcggagctc aaaagatagc 660
aggtgggctc atgttgacac caccaacccc catgtccacc acctgagaat tcaacagcca 720
gatttctgct gccaggttgg ctgctggcat ctgcatccag ctgacctgct tctaagattg 780
aatgcaagtt tcactcagcc caactctcta cccatcccag tgaccagcat tggctcagaa 840
tcttccattc cagcccttgt ttctcaaagg gaaagagggt agcatcttgg cacatctctt 900
taaagtcagt ttcacatgct gcagtaggct ctctggggag ctggataata ttctgagctt 960
agtgacttca gcctgtataa actcatggag tatttactta t 1001

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<210> 201

<211> 1001

<212> DNA

<213> homo sapiens

<400> 201

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gaaatcttgg gcaccaatat ctgtcttgga gagtgtcttc tctccatcta tccaatatcg 120
tctcttttta aaaaaaaaaa aaaaccgttt ttttgccgg gcgcagtgaa tcacacctgt 180
aatcccagca ctttggaagg ccgaggcagg tggatcaciaa ggtcaggagt tcaagaccag 240
tctggcaaag atggtgaaac cccgtctcta ccaaaaatac aaaaattagc tgggtgtggt 300
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tacttttgca ccaacctaat atttatggtg attccttctc tatggtcctg ttgctatgcc 600
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catgtggctt ggatttctct tggcgtggca gctgggttcg aagggaacat cccaagatac 900
ccaggtggaa gctgcaaggc tttttacggc ctatttttga aaacctgct ctgttatttc 960
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<210> 202

<211> 1001

<212> DNA

<213> homo sapiens

<400> 202

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catggcctct ctcagtcttt tccctcctgt ttttcttttt ctgggaaaga ctgcatgaga 120
cccatatggc agggcaagtg ggagccataa tgtgggttca tgaaaggagc acggataatg 180
gtcacttcac agcctcactt tcattactga gaaggtggat ggaggagaat taccatgcat 240
ctcattaaat caatatttta tttcctccct gctcccagct gccctcccag ctttgatctc 300
tttgccctctg gggcagtgct ggacaggtga ctttcatgat gcaaatacagg gtcggcgggc 360
tgtctgcccc ggctttgatc tcctacctaa gagaaggctg gcaaggaacg ccatgggccc 420
cagccccagg ttctctgtaa ccttaggcga ggtggagcct gtggaaggac tgttcttttg 480
tctttgtgaa cagcaggagc ygttaaacta cctgagttcc agtaatgtac accatgtgaa 540
gtgttggagg agctagacag gagagggcat cttgtttaac agatatctat ttatcttatt 600
caaatatagg ttaactagct aagtttagaa caaggccaag gcattgagaa ataatagatt 660
ctccacctgt catactgggg gcttcttttc ttgactctga taaaagctat gcatactctc 720
cctttcccca atatttgttt ttccttcttt tgccatcgct attgatgcct agccatgggt 780
ctggggtaga gaggaagaag gacatgacat agcggaagtg agagttcttc cctaagcaca 840
gtacaggctg accaggaagg ggaggtaaaa gcaattctca gacgttgcat ttctggagct 900
tacagggaga aaaaggaaga tagagggagg agaggcaggg agagacataa atgtcttcat 960
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<210> 203

<211> 2001

<212> DNA

<213> homo sapiens

<400> 203

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ttgcccggcc acactccgca gccagggcca aaagggcttt ggctcctctt acacagaaac 60
tgtagctgct tctgtggtga gccacagctc cccagggccc ggctctctgat gagggctcagt 120
gacgtcatct tcggcaggag ttccagacgg agaattcccc caagacctcg aaatcaatat 180
gtctctgccc cgctttgcct ttccagccag aaaatatgcc cattacttga cttttgtctg 240
ctgctttaag atctcagctt gttaccaagc ttgacatgcc ttcttattct catctccgcc 300
caccttcaac ccattcattg aagcccagct cgagtatggg aaacttcaga gcacttcagc 360
aatagaaaatt ctcaaagtta gcaaagtcac tttccgtttg tcctctgtgg cttcttcagt 420
tactagagaa gaagcatcgg gggctctaga gtacccttcc cccatgtctt tttgagcaga 480
tgctctttta tctgttttag attttgagtt tctgcatgta attatttttg aactgggact 540
gaaacagttc agaacacacc tccttatggc atacttgcac caaggtgggtg gaggtgcttg 600
ggaaaccatc tgattgcatg gcctctctca gtcttttccc tcctgttttt ctttttcttg 660
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aggagcacgg ataatggtca cttcacagcc tcactttcat tactgagaag gtggatggag 780
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ttgcatttct ggagcttaca gggagaaaaa ggaagataga gggaggagag gcagggagag 1500
acataaatgt cttcatctcc tgatgaccag gaatctgatg agtaacgctt ggtgctgggg 1560

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277/289

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atctgatgct cttctgcttc atatttcaga ctctcagagt agataatttt acaggctgcc 1620
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cttattacat tacagaattg taaaaacctt gttagtgcaa gtaattattc atagactagc 1740
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gttggaacttt agttggtttg tttatgtaat aaggaaagga gatccctcca aattgcttca 1860
aataaaagaa tgctgtttta aagatagata tggctctgtt gagggctaga aatcttgggc 1920
accaatatct gtcttgga gaagtccttc tccatctatc caatatcgtc tctttttaaa 1980
aaaaaaaaaa aaccgttttt t 2001

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<210> 204

<211> 2001

<212> DNA

<213> homo sapiens

<400> 204

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ggccaaaagg gctttggctc ctcttacaca gaaactgtag ctgcttctgt ggtgagccac 120
agctccccag ggcccgccct ctgatgaggg tcagtgaagt catcttcggc aggagtttca 180
gacggagaat tcccccaaga cctcgaaatc aatatgtctc tgccccgctt tgcctttcca 240
gccagaaaat atgcccatta cttgactttt gtctgtctgt ttaagatctc agcttggtac 300
caagcttgac atgccttctt attctcatct ccgccacct tcaaccatt cattgaagcc 360
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gtcattttcc gtttgctctc tgtggcttct tcagttacta gagaagaagc atcgggggct 480
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gagtttctgc atgtaattat ttttgaactg ggactgaaac agttcagaac acacctcctt 600
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ttctctccat ctatccaata t 2001

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278/289

<210> 205
 <211> 304
 <212> DNA
 <213> homo sapiens

<400> 205
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 aagtgtcagg agccttatcc gtccttggat cttaacagtg aatgagtttc agtgtttytt 180
 tccagggggc ctgctggccg agcccccttc cttccctggg tccctctctc tccctcctct 240
 actgcctcct cctccaggc tctcggtcgc tccagcaaag ttcccaactt agtcgacatg 300
 acgc 304

<210> 206
 <211> 377
 <212> DNA
 <213> homo sapiens

<220>
 <221> misc_feature
 <222> 58, 203, 254
 <223> n = A,T,C or G

<400> 206
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 tctctctctc tctctctctc tctctctctg tgtgtgtgtg tgtgtgtgtg tgtgtagata 120
 gaaagagaag agggggagat taattgagag agagaagggg agaatgaaca ttggaatcca 180
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 ttggtgaagc tttctgg 377

<210> 207
 <211> 360
 <212> DNA
 <213> homo sapiens

<220>
 <221> misc_feature
 <222> 33, 36, 72, 281, 311
 <223> n = A,T,C or G

<400> 207
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 taccgtggag gngccaacag aatcaccagg ctctgtgact cagtcacaac accctgacct 120
 gcccctgtcc attctccata tcataccag agtggtcttt tcaaagcaca gctttgacca 180
 attctctgtc tttcacacat acacacacac acacacacac acacacatgc gtgcatgcat 240
 gcctgaaata gtatagtatt gctcttaaga taaacattaa ngttcctacc atggtacaga 300
 aaatatatgt ngttaggccc cgtggctctt tcttttccag actcctctta cccttttgtg 360

279/289

<210> 208
 <211> 370
 <212> DNA
 <213> homo sapiens

<220>
 <221> misc_feature
 <222> 97, 267, 274, 347
 <223> n = A,T,C or G

<400> 208
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 gttattttgtg ttaggtaact acctctgttc atcctanact ggctctaact tggagatgac 120
 gttgaattct tttcaggatg gacttgggtgc cgtgtgtgtg tgtgtgtgtg tgtgtgtgtg 180
 tgtgtgtgtg tgtgtatgta tgtgtatgta aaacagagaa agatagtggc ccagaggcca 240
 acacacctgg aatctatttg tgagggncce tgcntcagtc cacgaattgg gccattcatt 300
 tattttctcag taagtgaaca tctgggattc agtttgaaac gccaatnagt ttggatggga 360
 tttcaaagct 370

<210> 209
 <211> 278
 <212> DNA
 <213> homo sapiens

<400> 209
 agctatgatc atgccactgc actccagcct ggctgataga atgagattct gactcagaaa 60
 aatataaaca cacacacaca cacacacaca cacacacaca cacacaactt 120
 tctgtctgcc cccctgtctc tccctgtccca tctctgcctt tcttctttcc tctctttgtc 180
 aaatctcctt cgtctgcctc acaaaggcca gtgagcccca gccgcagacc aggggaagcca 240
 gcaaattagg aattttcttc acaaagtttt gagtagct 278

<210> 210
 <211> 144
 <212> DNA
 <213> homo sapiens

<400> 210
 acttggcacc aaccaaagac ctgaaaaagt attttagtca ctcacattca gccctgcctc 60
 agacccaag catcatcatc atcatcatca tcatcatcat catcatcatc gctattattt 120
 atggagctgc cattacatgc tagg 144

<210> 211
 <211> 239
 <212> DNA
 <213> homo sapiens

<400> 211
 aatgcaggaa tccaggaaga attttaagtg gcatgatcca attctcattt tagaaatact 60
 accctggagg aagaagaaga gaatgaacag caagaggaac attatctttc aataagctat 120

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gtgtattatt ggatggagat gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt 180
 gtgtatctat ctgtctatat gtatgtgtat gtatatTTaa aatgtgttgg ccaccagtg 239

<210> 212
 <211> 245
 <212> DNA
 <213> homo sapiens

<400> 212
 atttgagcca gtgtgcaagg aagacagtgt ctgacatatc aaaagccctc aataaatggt 60
 aaatgttcat attatcacca ccaccaccac caccaatggt tccacacact ccaggacctt 120
 ttaaccaggt gacttgcaga catgcccctg tgccggccgt gcccctgcc a ggctccctgg 180
 catcatgttg acttctgtat tgctagaaat atattgtgtt tagtcacatg tttgcaaatg 240
 acaga 245

<210> 213
 <211> 148
 <212> DNA
 <213> homo sapiens

<400> 213
 gccatagtcc gacaagggtca aatataccttg tcatctgatt cctgagcaaa ctgttttttat 60
 ttttccacta aatcacatca tcttaaaaca aaacaaaaca aaacaaaaca aaacaaaaaac 120
 aaaaactcta ctgctggcaa atgagaaa 148

<210> 214
 <211> 171
 <212> DNA
 <213> homo sapiens

<400> 214
 ccataatcca cccagttgct ccagccaaaa acctaagact ctttcttttc tgattttctct 60
 cttcacacac acacacacac acacacacac acacacacac acatgttggtc ctgcagctag 120
 ccatcaacaa gccaggttga atctaactcc ttacctgatc cctcaaggtc g 171

<210> 215
 <211> 126
 <212> DNA
 <213> homo sapiens

<400> 215
 ctgctccatt actccattca aagtttgtac atccctatgt gaggtaaggg tgtgtgtgtg 60
 tgtgtgtgtg tgtgtgtatg tgagtgaat agaatgggat gggaaattgt tcctcgatcc 120
 cagtct 126

<210> 216
 <211> 379
 <212> DNA
 <213> homo sapiens

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<400> 216

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gttgtggcca ccattctcat tcccagtggt tgcatttaat gcctacttgt gcagccaaac 60
actgcatata ggctctggga taaattggga aacatgaaac acatgtcagt gtgtgcactt 120
acgaatgagt tctgaattag gaatatatat ttctatatgt ctatacacac acacacacac 180
acacacacac acacacagag actatataca taaattttatt ttaaaagggc actttgctgg 240
aacaagaaca ggcaaggggt ggctgggtatt ccaatcatgc agtgggtctg cttgccttct 300
ctaggacaca cctgcacttt gtcaggtctc ctcttgctgt gtgccccatc tctctggctc 360
agtcgcccta gctgacttt 379

```

<210> 217

<211> 252

<212> DNA

<213> homo sapiens

<400> 217

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tggtctgact gcctgaaatg gatctggcca gctctgaagt tataaatgac tattaacttg 60
catgtacatt attatctgct gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt gtgtgtgcac 120
attcacatgc acgcataaat atgtgctttc ttccacccta gatatgtttt cttggagctc 180
gagccctagt gtactaatat atacccttgt acaatcttct ggggctcccc agagacccat 240
gcccttgact tt 252

```

<210> 218

<211> 387

<212> DNA

<213> homo sapiens

<400> 218

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aaacatgtaa actggatggg agagtctaata acactttacc tttctttctt tctttctttt 60
ttttgagaca gaattttgct ctcatgccc aggctagagt gcaatgggtgt gatcttggtt 120
cactgcaacc tccgcctccc aggttcaagt gattctccta tctcagcctc ccaagtagct 180
gggattacag acaccacca ccatgcccag ctaatttttt tgtattttta gtagagatgg 240
gtttcaccgt gttggccagg ctggtctcaa actcctgacc tcaggtgatc caaccgcctc 300
agcctcccaa agtgctggga ttacaggcgt gagccactgc gcccagccaa cagtctacct 360
ttctgaagaa ccatgaggac caatgggt 387

```

<210> 219

<211> 211

<212> DNA

<213> homo sapiens

<400> 219

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aagagaaaagg cggaacacag aacagcctcc cataaatcat tatttgtctg gggaaaaagt 60
ctctgacaga tatgtggggg accactgtgt gtgtgtgtat gtgtgtgtgt gtgtgtgtgt 120
gtgtgtgtggg gtgggggggtg tggtttgatt tccaaggcag aatttcactg tctgatcctg 180
tctggagggc agaatgcttg tgctctccac a 211

```

<210> 220

<211> 414

<212> DNA

<213> homo sapiens

<400> 220

```

tttgggctga tatagactgg gtagttcata agcaacaaaa tttatttctc agtggttttt 60
gtttgtttgt ttgtttgttt gtttgagatg gagtcttgct ctgtcaccca ggctggagta 120
caatgggtgcg atcttggttc actgcaacct ctacctctg ggttcaagtg attctcctgc 180
ctcagcctcc caagtagctg ggactacagg tgtgtgtgcc accacacca gctaattctt 240
gtatttttag tagagacagg gtttcaccgt gttgaccaag ctggtcttga gtcctgact 300
tcagatgatt caccggcctt ggctcccaa agggctggga ttacagccat gagccgctgc 360
gcgtggccta tttcaaacag ttctagacac tggaagtcc agatcaggat gccca 414

```

<210> 221

<211> 192

<212> DNA

<213> homo sapiens

<400> 221

```

gcagggacca gagttggtaa aatatgcaga tgtggaacct caggttatgg agggcctact 60
gtacgtgtgt gtgtgtgtgt gtgtgtgtgt atatatagtt aacatttgca gtgcacagat 120
attttcatcc ccttccctga agatgaggag gtgaagatgg ctacacaaca gtctcatggc 180
aggttagctg gt 192

```

<210> 222

<211> 390

<212> DNA

<213> homo sapiens

<400> 222

```

ctttgtttcc tcacaatcct tttttaaaaa tcttatttgt aaatcttttt tatacatctt 60
tatttttcca ggtttattga tatataattg aggaattgta taaatgtagg ttgtaaaaca 120
tgatgttttt atatgtatac attgtgaagt gattaccaca atcaagttaa ttaacacctt 180
tcatctcatt cattaccttt gtgtgtgtgt gtgtgtgtgt gtgtgtatgt agaacacttg 240
agatctactc ttttagcaaa tttcaagtat acaatacatt attattcata tctcttggtt 300
tattgtcctc ttttcccttt gtggctattt tcatataaac ataaaattgt gtagaagcct 360
ggagaatcat ctaaccacag caggcaaata 390

```

<210> 223

<211> 167

<212> DNA

<213> homo sapiens

<400> 223

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tctggaaagc aggaagagaa aactgacatt taagagagag agagaaagag agagagagag 60
agaatgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtatg 120
ggtggaatag aatacatctt aggagagcac aacaggaggg tggctctt 167

```

<210> 224

<211> 152

<212> DNA

<213> homo sapiens

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<400> 224

```

aggacattg aaggctatgc caaaaggctt agaaacatac tagcacatga taagtaaaga 60
tgaatgaggt attattatta ttattattat tattattggt atttctaaag taagattttc 120
tggattagcc ccacagagga gagtcagagg ct 152

```

<210> 225

<211> 133

<212> DNA

<213> homo sapiens

<400> 225

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tcagctcttt gtgcttggag agttgtgtgt gtgtgtgtgt gtgtgtgtga gagagagaga 60
gagagagaga gagagaagag ggggaaagag agagaaaatc tttaaatttt aattgggtctg 120
caatggaaga ttt 133

```

<210> 226

<211> 245

<212> DNA

<213> homo sapiens

<400> 226

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cttgagtgat tcagtccttt tgtatcatgc cacaaagatt atgttcactc catgagtgtg 60
tcataaagct ttgagatata aagagtgaac acataaccaa cctgcctgcc tgcctgcctg 120
cctgcctgcc ttccttccca caaacattc tgtattgtgc aagcttctct gtaataccag 180
gcaggcagac ctcaaagttt ttgcgaggca ttttatgact tttatccttc tccctcatcc 240
actca 245

```

<210> 227

<211> 184

<212> DNA

<213> homo sapiens

<400> 227

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catagacgag cctggagtgc actgtgttaa gtgaaataaa ccagacaaag aaagaaaaag 60
attgcattgt ttcaagtata tgtggaatct aaaaacaaac aaacaaacaa aaacccaact 120
gtacagaaat agagaacaaa acagtgatta ccaggcaggg gatagctagg gaggagatgg 180
gaga 184

```

<210> 228

<211> 154

<212> DNA

<213> homo sapiens

<400> 228

```

actgctcctc tccctcatca tcatcacggc ccaagagtga tgaataagga gagagagaga 60
gagagagaga gagagaagaa tttatttgac taagtacgct ttacattttt actcattggc 120
tttagtccat ctcttaggtc aaacatccca tgcc 154

```

<210> 229

<211> 255

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<212> DNA

<213> homo sapiens

<400> 229

tgatgtggtg	tggtgtggta	tgggggggtgt	gtgtgtgtgt	gtgtgtgtgt	gtgtgtgtgt	60
gtgtgtgttg	tatgaaattt	tccaattttt	aaaacagagg	aggattgaaa	aaacacatat	120
atgtggcatg	acgcaaaatg	ctgcaataag	gattccatcc	tcaggctatc	aaatgggcac	180
ctctgacctg	ttgtgtactg	aatagtccag	tgtttcttga	caagatgatg	tactcagaag	240
gccctgaatg	tcaag					255

<210> 230

<211> 251

<212> DNA

<213> homo sapiens

<400> 230

aagctcgggt	acttcctcct	acacattacc	ttgttggaat	gtgtgtgtgt	gtgtgtgtgt	60
gtgtgtgtgt	gtgtgtgtgt	gtgtcaggat	cttgcctctgt	ctcccaggct	ggaatgcagc	120
ggtgcaatca	cagctcacag	cagcctcgac	ctcccaggct	caagtgatec	tcccacctca	180
gcctcctgca	tagctaggac	tacaggcggt	caccaccaca	ctcagctacc	ttgttggatt	240
taattggcac	c					251

<210> 231

<211> 335

<212> DNA

<213> homo sapiens

<400> 231

tttaaaggaa	gccagtcagg	attcctggcc	atgtcctaca	cacacacaca	cacacacaca	60
cacacacaca	cacacacaca	cacacacaca	aagtgggatg	aggggtagaa	agtgtgggtg	120
aggaccaagg	agcaccacaa	atctggtaga	tttgagcaaa	atgaggctga	agagaattga	180
atcaggctaa	ttaaccaggc	gttggcaata	gtgattattt	ttcaaggaga	ggtaagtgc	240
agaaatcccc	acttcaggc	ccaattacca	tgtcatcaag	cgctaggctc	tgcctcctgg	300
atttctgtgc	ttggcgtaaa	gggctgcagg	agttg			335

<210> 232

<211> 230

<212> DNA

<213> homo sapiens

<400> 232

ggcagaggca	gagtgagcta	cacacacaca	cacacacaca	tacacacaca	cacaccctta	60
cacaccctta	aatgttcctt	attaattata	ctggcttgca	ttgaactgag	gtgtaagtgg	120
tcgattttgga	ctcctttcct	aaaagaaggg	tttgagaggg	gaggagtgcg	agagatggag	180
ggtactgggt	cccaaccgc	aggaaggaga	gaagcaggac	atgggaagag		230

<210> 233

<211> 137

<212> DNA

<213> homo sapiens

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<400> 233

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caatggtggg ccaaagacgc agggaataat gaagggagaa agaaaagaaa ggaagatgga 60
ggaaaacgag gcaactggaa gaaggaagga aggaaagaag gaagggatgg aggggatgaa 120
gagaagggag agaggga                                     137

```

<210> 234

<211> 265

<212> DNA

<213> homo sapiens

<400> 234

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gtctgcaggc cagaactcac cggtagggcta ccagtttgca agttcgtctc tgctgttccc 60
agtaaagagc tagttgtacg ttttgtttgt ttgtttgttt gtttgttttt gagcatggag 120
ctgaactgag caaaacaggg gcagggagtc ctcctgggtc aagggatgaa ggaaaagaga 180
cccatgccc aatactcttc tttacatgcc ctcacatga ccacatccaa ccacccgggt 240
tgcccctctg tttggcccat tcttc                                     265

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<210> 235

<211> 370

<212> DNA

<213> homo sapiens

<400> 235

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ttcgagttgt cccacctttc cctactaaac cagtgtatca atgtgcatct tacatgtatt 60
gactgatgtc ttatgtctcc ctaaaatgta taaaacccaa ctatagcttg actactctgg 120
gcacatgttc ttaggatctc ccggggctgt ggcactccta tttggctcag aataaatctc 180
ttcaaatatt ttacagagtt tgactcttct tgttgacaac ttccagttct ctctcattct 240
ctctctgtca ctctctctct ctctctctct ctctctctca cacacacaca cagacacaca 300
cacaacacac acatacataa gccaaactcaa tcatcgttat atctgtaccc tgagaggcta 360
atcccagagg                                     370

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<210> 236

<211> 1523

<212> PRT

<213> homo sapiens

<400> 236

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Met Ala Pro Gly Trp Ala Gly Val Gly Ala Ala Val Arg Ala Arg Leu
 1           5           10          15
Ala Leu Ala Leu Ala Leu Ala Ser Val Leu Ser Gly Pro Pro Ala Val
          20          25          30
Ala Cys Pro Thr Lys Cys Thr Cys Ser Ala Ala Ser Val Asp Cys His
          35          40          45
Gly Leu Gly Leu Arg Ala Val Pro Arg Gly Ile Pro Arg Asn Ala Glu
          50          55          60
Arg Leu Asp Leu Asp Arg Asn Asn Ile Thr Arg Ile Thr Lys Met Asp
65          70          75          80
Phe Ala Gly Leu Lys Asn Leu Arg Val Leu His Leu Glu Asp Asn Gln
          85          90          95

```

Val	Ser	Val	Ile	Glu	Arg	Gly	Ala	Phe	Gln	Asp	Leu	Lys	Gln	Leu	Glu
			100					105					110		
Arg	Leu	Arg	Leu	Asn	Lys	Asn	Lys	Leu	Gln	Val	Leu	Pro	Glu	Leu	Leu
		115					120					125			
Phe	Gln	Ser	Thr	Pro	Lys	Leu	Thr	Arg	Leu	Asp	Leu	Ser	Glu	Asn	Gln
	130					135					140				
Ile	Gln	Gly	Ile	Pro	Arg	Lys	Ala	Phe	Arg	Gly	Ile	Thr	Asp	Val	Lys
145					150					155					160
Asn	Leu	Gln	Leu	Asp	Asn	Asn	His	Ile	Ser	Cys	Ile	Glu	Asp	Gly	Ala
			165					170					175		
Phe	Arg	Ala	Leu	Arg	Asp	Leu	Glu	Ile	Leu	Thr	Leu	Asn	Asn	Asn	Asn
		180					185						190		
Ile	Ser	Arg	Ile	Leu	Val	Thr	Ser	Phe	Asn	His	Met	Pro	Lys	Ile	Arg
	195					200						205			
Thr	Leu	Arg	Leu	His	Ser	Asn	His	Leu	Tyr	Cys	Asp	Cys	His	Leu	Ala
	210					215					220				
Trp	Leu	Ser	Asp	Trp	Leu	Arg	Gln	Arg	Arg	Thr	Val	Gly	Gln	Phe	Thr
225					230					235					240
Leu	Cys	Met	Ala	Pro	Val	His	Leu	Arg	Gly	Phe	Asn	Val	Ala	Asp	Val
			245					250					255		
Gln	Lys	Lys	Glu	Tyr	Val	Cys	Pro	Ala	Pro	His	Ser	Glu	Pro	Pro	Ser
		260					265						270		
Cys	Asn	Ala	Asn	Ser	Ile	Ser	Cys	Pro	Ser	Pro	Cys	Thr	Cys	Ser	Asn
	275						280					285			
Asn	Ile	Val	Asp	Cys	Arg	Gly	Lys	Gly	Leu	Met	Glu	Ile	Pro	Ala	Asn
	290					295					300				
Leu	Pro	Glu	Gly	Ile	Val	Glu	Ile	Arg	Leu	Glu	Gln	Asn	Ser	Ile	Lys
305					310					315					320
Ala	Ile	Pro	Ala	Gly	Ala	Phe	Thr	Gln	Tyr	Lys	Lys	Leu	Lys	Arg	Ile
			325					330						335	
Asp	Ile	Ser	Lys	Asn	Gln	Ile	Ser	Asp	Ile	Ala	Pro	Asp	Ala	Phe	Gln
		340					345						350		
Gly	Leu	Lys	Ser	Leu	Thr	Ser	Leu	Val	Leu	Tyr	Gly	Asn	Lys	Ile	Thr
	355					360						365			
Glu	Ile	Ala	Lys	Gly	Leu	Phe	Asp	Gly	Leu	Val	Ser	Leu	Gln	Leu	Leu
	370					375					380				
Leu	Leu	Asn	Ala	Asn	Lys	Ile	Asn	Cys	Leu	Arg	Val	Asn	Thr	Phe	Gln
385					390					395					400
Asp	Leu	Gln	Asn	Leu	Asn	Leu	Leu	Ser	Leu	Tyr	Asp	Asn	Lys	Leu	Gln
			405					410						415	
Thr	Ile	Ser	Lys	Gly	Leu	Phe	Ala	Pro	Leu	Gln	Ser	Ile	Gln	Thr	Leu
		420					425						430		
His	Leu	Ala	Gln	Asn	Pro	Phe	Val	Cys	Asp	Cys	His	Leu	Lys	Trp	Leu
	435						440					445			</

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Ser	Glu	Cys	Phe	Met	Asp	Leu	Val	Cys	Pro	Glu	Lys	Cys	Arg	Cys	Glu
			500					505					510		
Gly	Thr	Ile	Val	Asp	Cys	Ser	Asn	Gln	Lys	Leu	Val	Arg	Ile	Pro	Ser
		515					520					525			
His	Leu	Pro	Glu	Tyr	Val	Thr	Asp	Leu	Arg	Leu	Asn	Asp	Asn	Glu	Val
	530					535					540				
Ser	Val	Leu	Glu	Ala	Thr	Gly	Ile	Phe	Lys	Lys	Leu	Pro	Asn	Leu	Arg
545					550					555					560
Lys	Ile	Asn	Leu	Ser	Asn	Asn	Lys	Ile	Lys	Glu	Val	Arg	Glu	Gly	Ala
				565					570					575	
Phe	Asp	Gly	Ala	Ala	Ser	Val	Gln	Glu	Leu	Met	Leu	Thr	Gly	Asn	Gln
			580					585					590		
Leu	Glu	Thr	Val	His	Gly	Arg	Val	Phe	Arg	Gly	Leu	Ser	Gly	Leu	Lys
		595					600					605			
Thr	Leu	Met	Leu	Arg	Ser	Asn	Leu	Ile	Gly	Cys	Val	Ser	Asn	Asp	Thr
	610					615						620			
Phe	Ala	Gly	Leu	Ser	Ser	Val	Arg	Leu	Leu	Ser	Leu	Tyr	Asp	Asn	Arg
625					630					635					640
Ile	Thr	Thr	Ile	Thr	Pro	Gly	Ala	Phe	Thr	Thr	Leu	Val	Ser	Leu	Ser
				645					650					655	
Thr	Ile	Asn	Leu	Leu	Ser	Asn	Pro	Phe	Asn	Cys	Asn	Cys	His	Leu	Ala
			660					665					670		
Trp	Leu	Gly	Lys	Trp	Leu	Arg	Lys	Arg	Arg	Ile	Val	Ser	Gly	Asn	Pro
		675					680					685			
Arg	Cys	Gln	Lys	Pro	Phe	Phe	Leu	Lys	Glu	Ile	Pro	Ile	Gln	Asp	Val
	690					695					700				
Ala	Ile	Gln	Asp	Phe	Thr	Cys	Asp	Gly	Asn	Glu	Glu	Ser	Ser	Cys	Gln
705					710					715					720
Leu	Ser	Pro	Arg	Cys	Pro	Glu	Gln	Cys	Thr	Cys	Met	Glu	Thr	Val	Val
				725					730					735	
Arg	Cys	Ser	Asn	Lys	Gly	Leu	Arg	Ala	Leu	Pro	Arg	Gly	Met	Pro	Lys
			740					745					750		
Asp	Val	Thr	Glu	Leu	Tyr	Leu	Glu	Gly	Asn	His	Leu	Thr	Ala	Val	Pro
		755					760					765			
Arg	Glu	Leu	Ser	Ala	Leu	Arg	His	Leu	Thr	Leu	Ile	Asp	Leu	Ser	Asn
	770					775					780				
Asn	Ser	Ile	Ser	Met	Leu	Thr	Asn	Tyr	Thr	Phe	Ser	Asn	Met	Ser	His
785					790					795					800
Leu	Ser	Thr	Leu	Ile	Leu	Ser	Tyr	Asn	Arg	Leu	Arg	Cys	Ile	Pro	Val
				805					810					815	
His	Ala	Phe	Asn	Gly	Leu	Arg	Ser	Leu	Arg	Val	Leu	Thr	Leu	His	Gly
			820					825					830		
Asn	Asp	Ile	Ser	Ser	Val	Pro	Glu	Gly	Ser	Phe	Asn	Asp	Leu	Thr	Ser
		835					840					845			
Leu	Ser</														

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Thr	Thr	Pro	Thr	His	Arg	Phe	Gln	Cys	Lys	Gly	Pro	Val	Asp	Ile	Asn		
			900					905					910				
Ile	Val	Ala	Lys	Cys	Asn	Ala	Cys	Leu	Ser	Ser	Pro	Cys	Lys	Asn	Asn		
		915					920					925					
Gly	Thr	Cys	Thr	Gln	Asp	Pro	Val	Glu	Leu	Tyr	Arg	Cys	Ala	Cys	Pro		
	930					935					940						
Tyr	Ser	Tyr	Lys	Gly	Lys	Asp	Cys	Thr	Val	Pro	Ile	Asn	Thr	Cys	Ile		
945					950					955					960		
Gln	Asn	Pro	Cys	Gln	His	Gly	Gly	Thr	Cys	His	Leu	Ser	Asp	Ser	His		
				965					970					975			
Lys	Asp	Gly	Phe	Ser	Cys	Ser	Cys	Pro	Leu	Gly	Phe	Glu	Gly	Gln	Arg		
			980					985					990				
Cys	Glu	Ile	Asn	Pro	Asp	Asp	Cys	Glu	Asp	Asn	Asp	Cys	Glu	Asn	Asn		
	995						1000					1005					
Ala	Thr	Cys	Val	Asp	Gly	Ile	Asn	Asn	Tyr	Val	Cys	Ile	Cys	Pro	Pro		
	1010					1015					1020						
Asn	Tyr	Thr	Gly	Glu	Leu	Cys	Asp	Glu	Val	Ile	Asp	His	Cys	Val	Pro		
1025					1030					1035					1040		
Glu	Leu	Asn	Leu	Cys	Gln	His	Glu	Ala	Lys	Cys	Ile	Pro	Leu	Asp	Lys		
				1045					1050					1055			
Gly	Phe	Ser	Cys	Glu	Cys	Val	Pro	Gly	Tyr	Ser	Gly	Lys	Leu	Cys	Glu		
			1060					1065					1070				
Thr	Asp	Asn	Asp	Asp	Cys	Val	Ala	His	Lys	Cys	Arg	His	Gly	Ala	Gln		
	1075						1080					1085					
Cys	Val	Asp	Thr	Ile	Asn	Gly	Tyr	Thr	Cys	Thr	Cys	Pro	Gln	Gly	Phe		
	1090					1095					1100						
Ser	Gly	Pro	Phe	Cys	Glu	His	Pro	Pro	Pro	Met	Val	Leu	Leu	Gln	Thr		
1105					1110					1115					1120		
Ser	Pro	Cys	Asp	Gln	Tyr	Glu	Cys	Gln	Asn	Gly	Ala	Gln	Cys	Ile	Val		
				1125				1130					1135				
Val	Gln	Gln	Glu	Pro	Thr	Cys	Arg	Cys	Pro	Pro	Gly	Phe	Ala	Gly	Pro		
			1140					1145				1150					
Arg	Cys	Glu	Lys	Leu	Ile	Thr	Val	Asn	Phe	Val	Gly	Lys	Asp	Ser	Tyr		
	1155					1160					1165						
Val	Glu	Leu	Ala	Ser	Ala	Lys	Val	Arg	Pro	Gln	Ala	Asn	Ile	Ser	Leu		
	1170					1175				1180							
Gln	Val	Ala	Thr	Asp	Lys	Asp	Asn	Gly	Ile	Leu	Leu	Tyr	Lys	Gly	Asp		
1185					1190					1195					1200		
Asn	Asp	Pro	Leu	Ala	Leu	Glu	Leu	Tyr	Gln	Gly	His	Val	Arg	Leu	Val		
				1205				1210					1215				
Tyr	Asp	Ser	Leu	Ser	Ser	Pro	Pro	Thr	Thr	Val	Tyr	Ser	Val	Glu	Thr		
			1220					1225					1230				
Val	Asn	Asp	Gly	Gln	Phe	His	Ser	Val	Glu	Leu	Val	Thr	Leu	Asn	Gln		
	1235					1240						1245					
Thr	Leu	Asn	Leu	Val	Val	Asp	Lys	Gly	Thr	Pro	Lys	Ser	Leu	Gly	Lys		
	1250					1255					1260						
Leu	Gln	Lys	Gln	Pro	Ala	Val	Gly	Ile	Asn	Ser	Pro	Leu	Tyr	Leu	Gly		
1265					1270					1275					1280		
Gly	Ile	Pro	Thr	Ser	Thr	Gly	Leu	Ser	Ala	Leu	Arg	Gln	Gly	Thr	Asp		
				1285					1290					1295			

[illegible]